

PENTAX

EN

Digital Camera

Optio E70

Operating Manual



acdsee™



PictBridge



To ensure the best performance from
your camera, please read the Operating
Manual before using the camera.

Thank you for purchasing this PENTAX Digital Camera.
Please read this manual before using the camera in order to get the most out of all the features and functions. Keep this manual safe, as it can be a valuable tool in helping you to understand all the camera capabilities.

Regarding copyrights

Images taken using the PENTAX Digital Camera that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

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This product supports PRINT Image Matching III. PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant.

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Regarding PictBridge

PictBridge allows the user to connect the printer and digital camera directly, using the unified standard for the direct printout of images. You can print images directly from the camera through a few simple operations.

Regarding Product Registration

In order to serve you better, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or the PENTAX website. Thank you for your cooperation.

Refer to chapter 7 for more information.

There is a possibility that the illustrations and the display screen in this manual are different from the actual product.

In this manual, both an SD Memory Card and an SDHC Memory Card are referred to as SD Memory Cards hereafter.

In this manual, the generic term "computer(s)" refers to either a Windows PC or a Macintosh hereafter.

To users of this camera

- There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields.
- The liquid crystal panel used in the display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image.

USING YOUR CAMERA SAFELY

We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols.

- | | | |
|--|----------------|---|
|  | Warning | This symbol indicates that violating this item could cause serious personal injuries. |
|  | Caution | This symbol indicates that violating this item could cause minor or medium personal injuries, or material losses. |

About the Camera

Warning

- Do not attempt to take the camera apart or remodel the camera. High voltages are present within the camera, and there is therefore a danger of electric shocks if the camera is taken apart.
- If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock.
- To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children. Seek medical attention immediately if a card is accidentally swallowed.

- Wrapping the strap of the camera around your neck is also dangerous. Please take care that small children do not hang the strap around their necks.
- If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the batteries and contact your nearest PENTAX Service Center. Continued use of the camera may result in fire or electric shock.

Caution

- Never try to disassemble or short the batteries. Also, do not dispose of the batteries in a fire, as they may explode.
- Do not charge any batteries other than rechargeable Ni-MH batteries. The batteries could explode or catch fire. Batteries for use with this camera other than Ni-MH batteries cannot be charged.
- Do not place your finger on the flash when it is discharging as there is a risk of burns.
- Do not discharge the flash while it is touching your clothing as there is a risk of discoloring.
- If any leakage from the batteries should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately.
- If any leakage from the batteries should come in contact with skin or clothes, wash the affected areas thoroughly with water.
- Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not to burn yourself during removal.
- Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.
- Should the LCD be damaged, be careful of glass fragments. Also, be careful not to allow the liquid crystal to get on your skin or in your eyes or in your mouth.
- Depending on your inherent factors or physical condition, the use of the camera may cause itching, rashes or blisters. In case of any abnormality, stop using the camera and get medical attention immediately.

Handling Precautions for Batteries

- This camera uses two AA alkaline, AA lithium or AA Ni-MH batteries. Do not use batteries other than those specified here. Using some other type of battery may cause the camera to function poorly, or the batteries may rupture or cause a fire.

- AA alkaline and AA lithium batteries cannot be recharged. Do not try to take the batteries apart. The batteries may rupture or leak if you try to charge them or take them apart.
- Do not remove the external seal of the battery. If the seal is removed, the battery may short and may cause a fire, rupture, leak or heat.
- When replacing the batteries, do not combine different brands, types or capacities. Also, do not combine old batteries with new ones. Doing so may cause the batteries to rupture or cause a fire.
- Do not insert the batteries with the positive (+) and negative (-) poles in the wrong orientation. Doing so may cause the batteries to rupture or cause a fire.

About the AC Adapter

Warning

- Use an AC adapter that is of the power and voltage specified for exclusive use with this product. The use of an AC adapter other than that specified exclusively for use with this product may cause fire or electric shocks.
- During thunderstorms, unplug and discontinue use of the AC adapter. Continued use could cause equipment failure, a fire, or electric shock.

Caution

- Do not place heavy objects on the AC plug cord, allow heavy objects to drop onto it or allow the AC plug cord to become damaged due to excessive bending. If the AC plug cord becomes damaged, consult a PENTAX Service Center.
- Do not short or touch the output terminals of the product while it is still plugged in.
- Do not plug in the AC plug cord with wet hands. This can cause an electrical shock.
- Do not subject the product to strong impacts or allow it to drop onto a hard surface. This can cause a malfunction.
- To reduce the risk of hazards, use only CSA/UL Certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent.

Care to be Taken During Handling

- When traveling, take the Worldwide Service Network listing that is included in the package. This will be useful if you experience problems abroad.
- When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc.
- The lens on this camera is not interchangeable. The lens is not removable.
- Do not clean the product with organic solvents such as thinner, alcohol or benzene.
- Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside.
- Storing the camera where pesticides and chemicals are handled should be avoided. Remove the camera from its case and store in a well-ventilated place to prevent the camera from becoming moldy during storage.
- As this camera is not waterproof, do not use the camera where it may come in contact with rain, water or any other liquid.
- Ensure that the camera is not subjected to substantial vibrations, shocks or pressure as this may cause damage or malfunction. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, ship, etc. If the camera is subjected to substantial vibrations, shocks or pressure, take your camera to your nearest PENTAX Service Center and have it checked.
- The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F).
- The liquid crystal display will become black at a high temperature but will return to normal when normal temperatures are returned to.
- The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a fault.
- Periodic checks are recommended every 1 to 2 years in order to maintain high performance.

- If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided.
- Be careful not to allow dirt, mud, sand, dust, water, toxic gases or salt to enter the camera as this may damage the camera. Wipe away any raindrops or water droplets and allow the camera to dry.
- Refer to “Precautions When Using an SD Memory Card” (p.34) regarding the SD Memory Card.
- Please note that formatting an SD Memory Card or the built-in memory will delete all data; however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera memory at your own risk.
- Please do not press forcefully on the display. This could cause breakage or malfunction.
- Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the display.
- When using a tripod with the camera, be careful not to overtighten the screw in the tripod socket on the camera.

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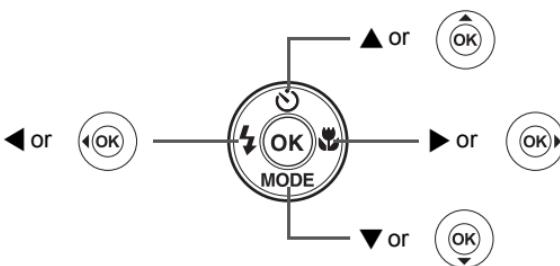
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In this manual, the method for operating the four-way controller is shown in illustrations, such as in the one below.



The meanings of the symbols used in this Operating Manual are explained below.

	indicates the reference page number for an explanation of the related operation.
	indicates information that is useful to know.
	indicates precautions to be taken when operating the camera.
	This is the mode for capturing still pictures and recording movies. In this manual, the mode for taking still pictures is referred to as the "Still Picture Capture Mode" and the mode for recording movies is referred to as the "mode".
	This is the mode for viewing still pictures and playing back movies.

Composition of the Operating Manual

This Operating Manual contains the following chapters.

1 Getting Started

This chapter explains what you need to do after purchasing the camera before you start taking pictures. Be sure to read it and follow the instructions.

2 Common Operations

This chapter explains common operations such as the functions of the buttons and how to use the menus. For more details, refer to the respective chapters below.

3 Taking Pictures

This chapter explains the various ways of capturing images and how to set the relevant functions.

4 Playing Back and Deleting Images

This chapter explains how to view still pictures and movies on the camera or on a TV and how to delete images from the camera.

5 Editing and Printing Images

This chapter explains the various ways of printing still pictures and how to edit images with the camera. For information on transferring images to a computer and installing the provided application software, see "Connecting with Computers" in chapter 7. For details on editing and printing images on a computer, see the Help menu of the application software.

6 Settings

This chapter explains how to set the camera-related functions.

7 Connecting with Computers

This chapter explains how to connect the camera to your computer, install the supplied CD-ROM S-SW87, etc.

8 Appendix

This chapter deals with troubleshooting and lists the optional accessories.

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11

Camera Features

In addition to basic picture-taking, the Optio E70 has a variety of shooting modes to suit different situations. This section describes how to make the most of the key features of your camera. Together with the explanations of camera operations, it will enable you to enjoy your camera to the full.

Advanced Movie Recording and Picture Taking Functions

The Optio E70 has a shake reduction function to reduce camera shake during movie recording (p.102).

- Use the camera to shoot fun-filled movies of your children or pets as a visual diary of their development (p.99).

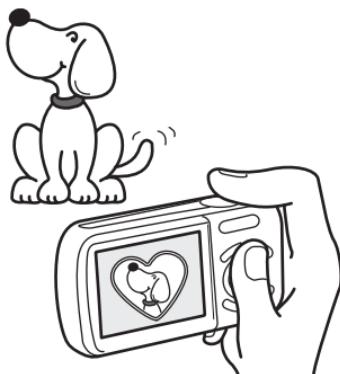
Perfect for Portrait Shots!

The Optio E70 comes with a “Face Recognition” function that spots the faces in your shot and automatically adjusts the focus and exposure for the faces. It can recognize up to 32 people per shot (*), so it will help you take perfect group shots too. It will automatically release the shutter when people are smiling. If anyone blinked, it will tell you that so you can take the shot again until it is perfect. It also has a feature that lets you enlarge each person's face in sequence during playback so you can quickly check their facial expressions.

* Up to 15 face recognition frames are displayed on the monitor.

- Face Recognition function (p.65)
- Modes for taking stunning pictures of people (p.76)
- Face Close-up Playback for easy checking during playback (p.117)

Add Various Frames to Your Pictures!



When you take a picture with the Optio E70, you can choose from a wide range of fun frames to create attractive framed shots (p.81). You can also add frames to pictures you have taken and adjust the position of the subject in the picture or reduce or enlarge the picture size to match the frame shape and size. Now you no longer have to worry about the subject not being aligned in the frame (p.141).

- For decorating your pictures with a frame.

Easy-to-Navigate Capture and Playback Functions!

The user-friendly design of the Optio E70 enables easy operation with only a few buttons. Simply by choosing the appropriate icon, you can select the shooting mode (p.63) and choose the optimal settings for the situation, or the playback mode (p.111, p.134) and enjoy the various playback and editing functions. A guide on the display lets you check the functions available in each mode and how to use them.



- A shooting mode guide is displayed in the Capture Mode Palette and a playback mode guide in the Playback Mode Palette (p.63, p.111).
- Use the Green Mode to take pictures easily using standard settings (p.69).

Display Images in Calendar Format!

With the Optio E70, you can display recorded images by date in calendar format (p.109). This lets you quickly find the image you want to play back.

A multitude of functions inside the camera for enjoying images without a Computer!

The Optio E70 has a variety of functions to let you enjoy playing back and editing images without having to connect the camera to your computer and transfer the images first. The camera is all you need to take and edit still pictures (p.134). And no more worries about accidentally deleting images, because now, with the Optio E70, you can recover them again (p.126).

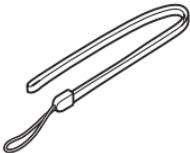


- Resize (p.134), Cropping (p.135) and Red-eye Compensation (p.140) can be used, while the image is displayed in the playback mode.

Checking the Contents of the Package



Camera
Optio E70



Strap
O-ST51 (*)



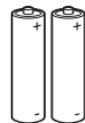
Software (CD-ROM)
S-SW87



USB cable
I-USB7 (*)



AV cable
I-AVC7 (*)



Two AA
alkaline batteries



Operating Manual
(this manual)

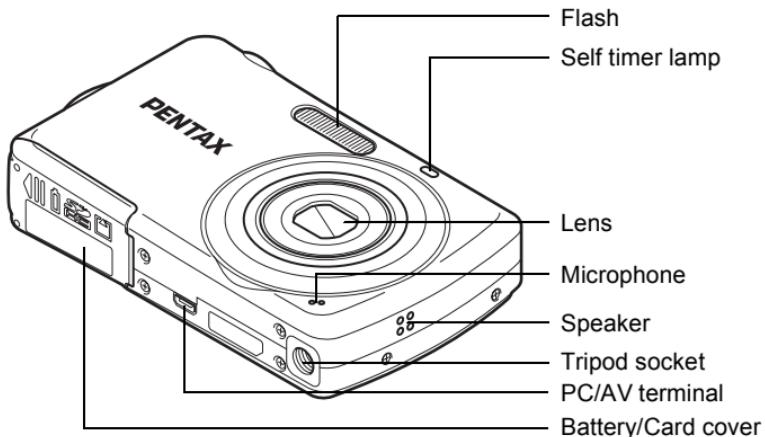


Quick Guide

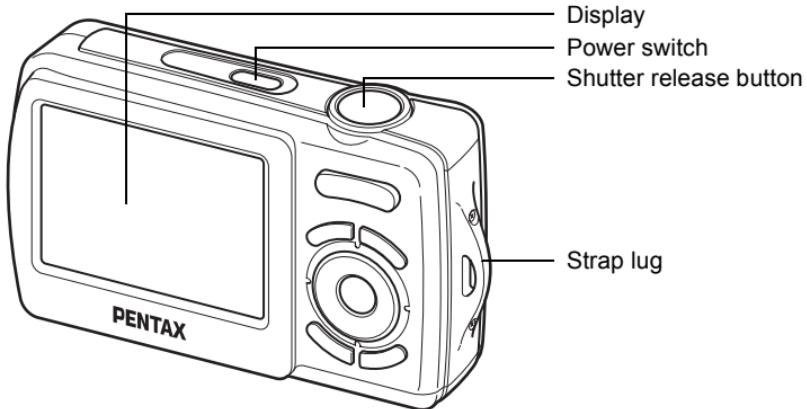
Items marked with an asterisk (*) are also available as optional accessories.
For other optional accessories, refer to "Optional Accessories" (p.209).

Names of Parts

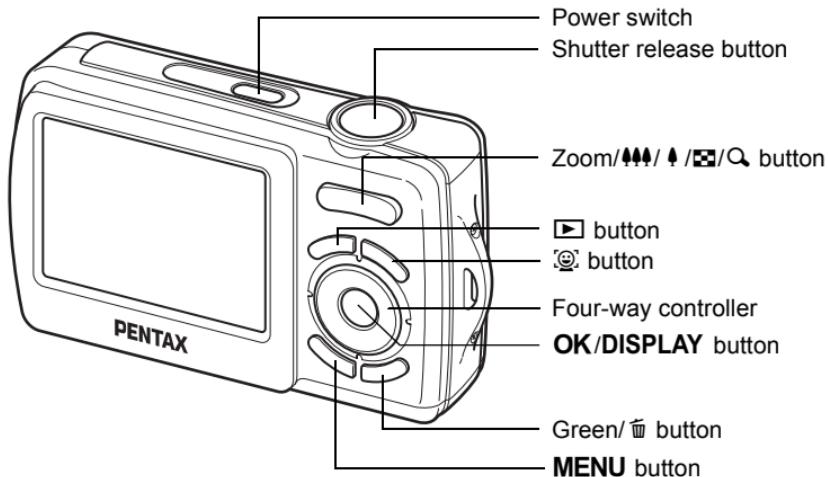
Front



Back



Names of Operating Parts



Refer to “Understanding the Button Functions” (p.46 - p.50) for an explanation of the function of each button.

Monitor Indications

Display in Mode

The display shows information such as the camera settings in the capture mode.

The display changes in the following sequence each time you press the **OK/DISPLAY** button: Normal Display, Detailed Display, No Info.

Normal Display



Detailed Display



OK

OK



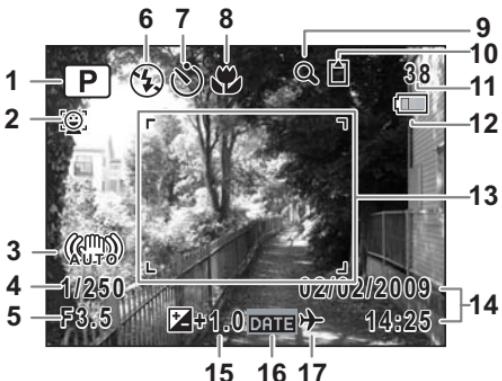
No Info



- To prevent camera shake, use a tripod and/or the self-timer function (p.83).
- When the shooting mode is set to (Green) mode, the monitor display is as shown on the right. You cannot change the information on the display by pressing the **OK/DISPLAY** button.



Normal Display in Still Picture Capture Mode



- | | | | |
|---|---|----|----------------------------------|
| 1 | Shooting mode (p.63) | 10 | Memory status (p.36) |
| 2 | Face Priority icon (p.65) | 11 | Remaining image storage capacity |
| 3 | Pixel Track SR (p.73) | 12 | Battery level indicator (p.29) |
| 4 | Shutter speed | 13 | Focus frame (p.60) |
| 5 | Aperture | 14 | Date and time (p.42) |
| 6 | Flash mode (p.89) | 15 | EV compensation (p.95) |
| 7 | Drive mode (p.83, p.84) | 16 | Date Imprint setting (p.98) |
| 8 | Focus mode (p.91) | 17 | World time setting (p.161) |
| 9 | Digital zoom/Intelligent zoom icon (p.71) | | |

* 3 indicates the status of Pixel Track SR.

(: Appears when Pixel Track SR is set to Auto and the shutter release button is pressed halfway.

(: Always appears when the Pixel Track SR is set to Off.

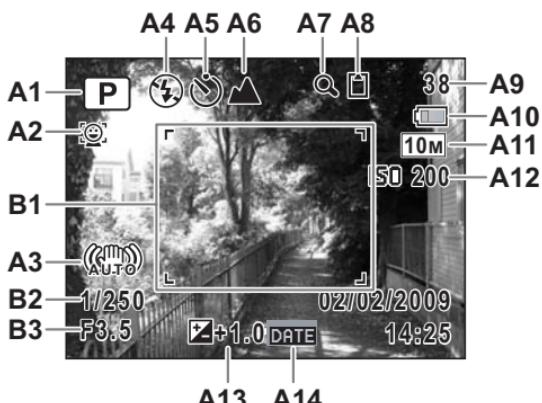
* 4 and 5 appear only when the shutter release button is pressed halfway.

* As to 8, when the focus mode is set to **AF** and the Auto-Macro function is activated, the appears on the display (p.91).

* Some indications may not appear depending on the shooting mode.

Detailed Display/No Info Display in Still Picture Capture Mode

A1 to A14 and B1 appear when "Detailed Display" is selected. Only B1 appears when "No Info" is selected.



- | | |
|---|--|
| A1 Shooting mode (p.63) | A9 Remaining image storage capacity |
| A2 Face Priority icon (p.65) | A10 Battery level indicator (p.29) |
| A3 Pixel Track SR (p.73) | A11 Recorded pixels (p.93) |
| A4 Flash mode (p.89) | A12 Sensitivity (p.96) |
| A5 Drive mode (p.83, p.84) | A13 EV compensation (p.95) |
| A6 Focus mode (p.91) | A14 Date Imprint setting (p.98) |
| A7 Digital zoom/
Intelligent zoom icon (p.71) | B1 Focus frame (p.60) |
| A8 Memory status (p.36) | B2 Shutter speed |
| | B3 Aperture |

* A3 indicates the status of Pixel Track SR.

：Appears when Pixel Track SR is set to Auto and the shutter release button is pressed halfway.

：Always appears when the Pixel Track SR is set to Off.

* B2 and B3 appear only when the shutter release button is pressed halfway.

* When the shooting mode is **AUTO PICT** (Auto Picture) and if you press the shutter release button halfway, the selected shooting mode appears in A1 even when "No Info" is selected (p.67).

* Some indications may not appear depending on the shooting mode.

Display in Mode

The display shows the shooting information of the image in  mode. The display changes in the following sequence each time you press the **OK/DISPLAY** button: Normal Display, Detailed Display, No Info.

Normal Display



OK

Detailed Display



OK

OK

No Info



Normal Display/Detailed Display in Still Picture Playback Mode
(All of the display items are displayed here for explanatory purposes.)
The display shows information such as the shooting conditions. A1 to A10 appear when “Normal Display” or “Detailed Display” is selected. B1 to B4 appear only when “Detailed Display” is selected.



- | | |
|---|--|
| A1 Playback mode
■ : Still Picture Playback
Mode (p.111) | A7 Battery level indicator (p.29) |
| A2 Face Priority icon (p.65) | A8 Volume icon |
| A3 Protect icon (p.127) | A9 Captured date and time (p.42) |
| A4 Memory status (p.36) | A10 Four-way controller guide |
| A5 Folder number (p.164) | B1 Recorded pixels (p.93) |
| A6 File number | B2 Sensitivity (p.96) |
| | B3 Shutter speed |
| | B4 Aperture |

- * A2 appears only if the Face Recognition function worked when the image was shot.
- * In “Normal Display”, A7 and A9 disappear if no operation is performed for two seconds.
- * A8 appears only when the volume is being adjusted during playback of movies. (p.107)
- * A10 appears even when “No Info” is selected, but disappears if no operation is performed for two seconds. When no operation is performed for two seconds in “Normal Display” or “Detailed Display”, only “Edit” disappears.

Guide Indications

A guide for each available button operation appears as follows on the display during operation.

Four-way controller (▲)	▲
Four-way controller (▼)	▼
Four-way controller (◀)	◀
Four-way controller (▶)	▶
 MENU button	 MENU

Zoom button	
OK/DISPLAY button	
Shutter release button	
Green/ button	,
button	,

Memo

1 Getting Started

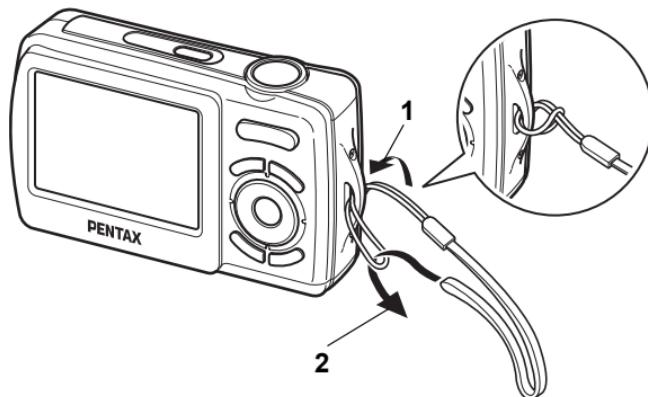
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Attaching the Strap

1

Getting Started

Attach the strap (O-ST51) supplied with the camera.

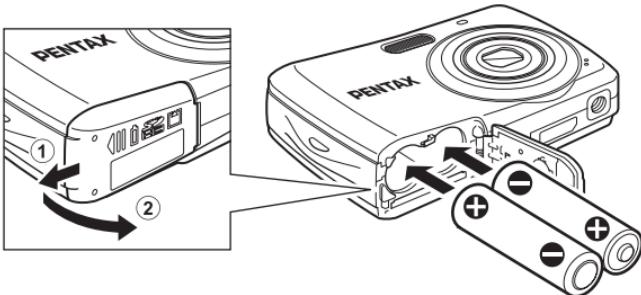


- 1** Pass the narrow end of the strap through the strap lug.
- 2** Pass the other end of the strap through the loop and pull tight.

Powering the Camera

Installing the Batteries

Install the batteries into the camera. Use two AA alkaline, AA lithium or AA Ni-MH batteries.



1 Open the battery/card cover.

Slide the battery/card cover in the direction ①. The cover will automatically open in the direction ② when you release your fingers from it.

2 Insert the batteries, making sure the (+) and (−) terminals on the batteries match the (+) and (−) symbols inside the battery compartment.



Make sure to check the direction of the batteries. If the battery is incorrectly oriented, malfunction may result.

3 Close the battery/card cover and slide it in the opposite direction of ①.



- AA alkaline and AA lithium batteries are not rechargeable.
- Do not open the battery/card cover or remove the batteries while the camera is turned on.
- If you do not intend to use the camera for a long time, remove the batteries. If the batteries are left in the camera for a long time, they may leak.
- If the batteries have been removed from the camera for a long time, when they are reinserted and the camera is turned on, the message [Battery depleted] may appear. This can also happen when using the camera for the first time; however this is not a malfunction. Turn the camera off, wait a minute and then turn the camera on again to reset the camera. The date and time may also be reset.
- Insert the batteries correctly. If the batteries are incorrectly oriented, malfunction may result. If the ends of the batteries look dirty, wipe them before inserting into the camera.
- Be careful as the camera or the batteries may become hot when the camera is used continuously for a long period of time.



Use the AC adapter kit K-AC62 (optional) if you intend to use the camera for a long time. (p.30)

Image Storage Capacity, Movie Recording Time, and Playback Time (at 23°C with the display on and the battery fully charged)

Image Storage Capacity ^{*1} (flash used for 50% of shots)	Movie Recording Time ^{*2}	Playback Time ^{*2}
Approx. 210 pictures	Approx. 110 min.	Approx. 480 min.

*1 Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with display on, flash used for 50% of the shots, and 23 degrees centigrade). Actual performance may vary according to operating conditions.

*2 According to the result of in-house testing.



- In general, battery performance may temporarily deteriorate as the temperature decreases. Be sure to take spare batteries when using the camera in a cold region and keep the batteries warm by placing them in your pocket or inside your coat. Battery performance that has deteriorated due to cold temperature will return to normal performance when the batteries reach room temperature.
- Due to their characteristics, AA alkaline batteries may not allow the camera to make full use of its capabilities when used at cold temperatures. Use of AA lithium or AA Ni-MH batteries is recommended when the camera is used at cold temperatures.
- Be sure to take spare batteries with you when traveling abroad or to a cold region, or if you intend to take a lot of pictures.

Battery Level Indicator

You can check the battery level by the indicator on the display.

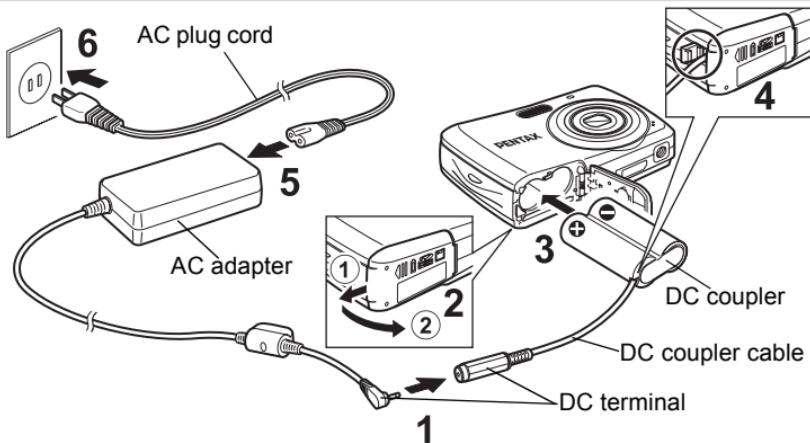
Screen Display	Battery Status
■ (green)	Adequate power remains.
■ (green)	Battery is running low.
■ (yellow)	Battery is running very low.
■ (red)	Battery is exhausted.
[Battery depleted]	The camera will turn off after this message appears.



AA nickel manganese batteries may not display the battery level correctly due to its characteristics. ■ may be displayed for the battery level even if the batteries are running low. The camera may also turn off without warning even if ■ is displayed.

Using the AC Adapter

Use of the AC adapter kit K-AC62 (optional) with a household power supply is recommended if you intend to use the camera for a long time or connect it to a computer.



- 1** Connect the DC terminal of the AC adapter to the DC input terminal of the DC coupler.
- 2** Make sure that the camera is turned off and open the battery/card cover.
Slide the battery/card cover in the direction ①. The cover will automatically open in the direction ② when you release your fingers from it.
- 3** Insert the DC coupler into the battery compartment, making sure the (+) and (-) terminals on the coupler match the (+) and (-) symbols inside the battery compartment.

4 Open the DC coupler cable cover, pass the DC coupler cable through the opening, and close the battery/card cover.

Slide the battery/card cover in the opposite direction of ①. Slide the battery/card cover all the way in to make sure it is securely closed.

5 Connect the AC plug cord to the AC adapter.

6 Plug the AC plug cord into the power outlet.



- Make sure that the camera is turned off before connecting or disconnecting the AC adapter.
- Make sure that the AC plug cord and the DC coupler cable are inserted securely. The data may be lost if either becomes disconnected while data is being recorded on the SD Memory Card or the built-in memory.
- Use the AC adapter with due care to avoid fire or electric shock.
Be sure to read "USING YOUR CAMERA SAFELY" (p.1) and "About the AC Adapter" (p.3) before using the AC adapter.
- Be sure to read the operation manual accompanying the AC adapter kit K-AC62 before using the adapter.

Installing the SD Memory Card

This camera uses either an SD Memory Card or an SDHC Memory Card. (Both cards are referred to as SD Memory Cards hereafter.) Captured images are saved on the SD Memory Card if a card is inserted in the camera. They are saved in the built-in memory if a card is not inserted (p.36).



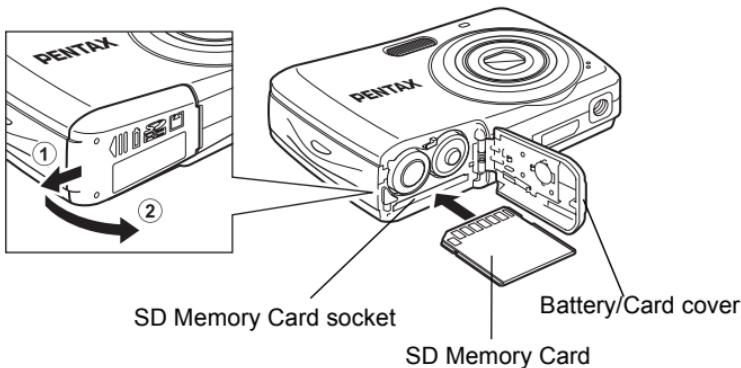
- Be sure to use this camera to format (initialize) an SD Memory Card that is unused or has been used on other cameras or digital devices. Refer to "Formatting an SD Memory Card" (p.156) for instructions on formatting.
- Make sure that the camera is turned off before inserting or removing the SD Memory Card.



- The still picture storage capacity varies depending on the capacity of the SD Memory Card and the selected number of recorded pixels (p.35).
- The self-timer lamp blinks while the SD Memory Card is being accessed (data is being recorded or read).

Backing Up Data

The camera may not be able to access data in the built-in memory in the case of a malfunction. Use a computer or other device to back up important data in another location.



1 Open the battery/card cover.

Slide the battery/card cover in the direction ①. The cover will automatically open in the direction ② when you release your fingers from it.

2 Insert the SD Memory Card into the SD Memory Card socket so that the label is facing toward the display.

Push the card in until it clicks. Images may not be recorded correctly if the card is not inserted all the way.

3 Close the battery/card cover and slide it in the opposite direction of ①.

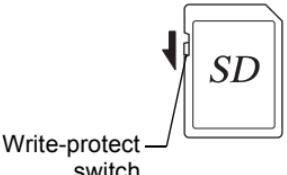
To Remove the SD Memory Card

1 Open the battery/card cover.

2 Push the card into the SD Memory Card socket to eject it.

Pull the card out.

Precautions When Using an SD Memory Card

- The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK prevents new data from being recorded on the card, the stored data from being deleted, and the card from being formatted by the camera or computer.

SD
↓
-  appears on the display when the card is write-protected.
- Care should be taken when removing the SD Memory Card immediately after using the camera, as the card may be hot.
- Do not remove the SD Memory Card or turn the camera off while images are being played back or saved to the card, or the camera is connected to a computer with the USB cable, as this may cause the data to be lost or the card to be damaged.
- Do not bend the SD Memory Card or subject it to violent impact. Keep it away from water and store away from high temperature.
- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- The data on the SD Memory Card may be deleted in the following circumstances. We do not accept any liability for data that is deleted
 - (1) when the SD Memory Card is mishandled by the user.
 - (2) when the SD Memory Card is exposed to static electricity or electrical interference.
 - (3) when the card has not been used for a long time.
 - (4) when the card is ejected or the batteries are removed while the data on the card is being recorded or accessed.
- If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a computer.
- Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
- Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.
- When using an SD Memory Card with a slow recording speed, recording may stop while you are taking movies even when there is adequate space in the memory, or shooting and playback may take a long time.
- For information on compatible SD Memory Cards, visit the PENTAX website.
- Be sure to format an SD Memory Card that is unused or has been used on another camera. Refer to "Formatting an SD Memory Card" (p.156).
- Please note that formatting the SD Memory Card will not necessarily delete the data so that it cannot be recovered using off-the-shelf data recovery software. There are off-the-shelf secure data deletion software programs available that will completely delete the data. If you are going to discard, give away or sell your SD Memory Card, you should ensure that the data on the card is completely deleted or the card itself is destroyed if it contains any personal or sensitive information. In any case, the data on your SD Memory Card should be managed at your own risk.

Number of Images Recordable on an SD Memory Card

The sizes of the recorded images differ depending on the number of recorded pixels of the images, so the number of images that will be saved on an SD Memory Card also differs.

Choose the appropriate number of recorded pixels for still pictures on the [CAM Rec.Mode] menu.

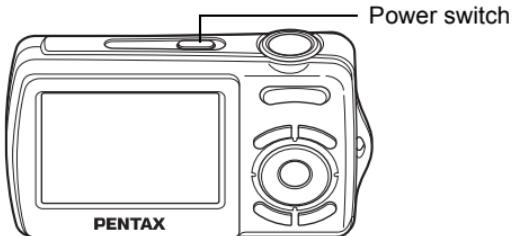
Selecting the Recorded Pixels  p.93

Choose the appropriate number of recorded pixels in [Movie] on the [CAM Rec.Mode] menu.

Selecting the Recorded Pixels for Movies  p.101

For an approximate guide to the number of images or the length of recorded movies that will be saved on an SD Memory Card, see “Main Specifications” (p.210).

Turning the Camera On and Off



1 Press the power switch.

The camera turns on and the display turns on.

When you turn the camera on, the lens cover opens and the lens extends.

If the [Language/言語] screen or [Date Adjust] screen appears when you turn the camera on, follow the procedure on p.38 to set the display language and/or current date and time.

2 Press the power switch again.

The display turns off, the lens closes, and the camera turns off.

Taking Pictures ➤ p.60

Checking the Memory Card

The memory card is checked when the camera turns on and the memory status is displayed.

- : The SD Memory Card is inserted.
Images will be saved on the SD Memory Card.
- ☒ : The SD Memory Card is not inserted.
Images will be saved in the built-in memory.
- ☒ : The write-protect switch on the SD Memory Card is in the LOCK position (p.34).
Images cannot be recorded.

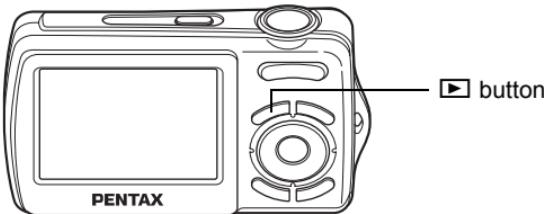
Memory status



If the batteries have been removed from the camera for a long time, when they are reinserted and the camera is turned on, the message [Battery depleted] may appear. This can also happen when using the camera for the first time; however this is not a malfunction. Turn the camera off, wait a minute and then turn the camera on again to reset the camera. The date and time and other settings may also be reset. Follow the procedure on p.38 to set these settings again.

Playback Mode

Use this mode when you want to play back an image straightaway without taking any more pictures.



1 Press the power switch while holding down the ▶ button.

The display turns on with the lens retracted and the camera turns on in the playback mode.



To switch from the playback mode to the capture mode, press the ▶ button or press the shutter release button halfway.

Playing Back Still Pictures p.106

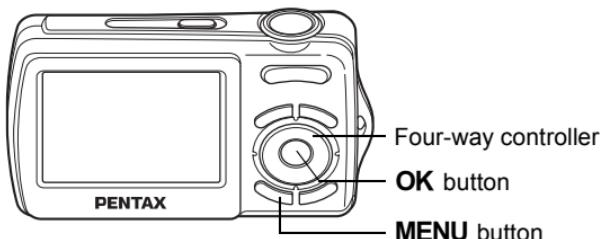
Initial Settings

The [Language/言語] screen appears when the camera is turned on for the first time. Perform the operations in “Setting the Display Language” below to set the language, and in “Setting the Date and Time” (p.42) to set the current date and time.

Language, Date, and Time can be changed later. Refer to the pages below for instructions.

- To change the language, follow the steps in “Changing the Display Language” (☞ p.163).
- To change the date and time, follow the steps in “Changing the Date and Time” (☞ p.158).

Setting the Display Language



- 1 Use the four-way controller (▲▼◀▶) to choose the display language.**

Language/言語		
English	日本語	Türkçe
Français	Dansk	Ελληνικά
Deutsch	Svenska	Русский
Español	Suomi	ไทย
Português	Polski	한국어
Italiano	Čeština	中文繁體
Nederlands	Magyar	中文简体

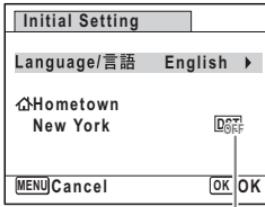
[MENU] [Cancel]

[OK] [OK]

2

Press the **OK** button.

The [Initial Setting] screen appears in the selected language. If the desired settings for [Hometown] and [DST] (Daylight Saving Time) appear, press the **OK** button again to display the [Date Adjust] screen. Go to “Setting the Date and Time” (p.42). Go to Step 3 in “To Set Hometown and DST” (p.41) if the desired settings do not appear.



Daylight saving time

If you accidentally select another language and go to the next procedure, perform the following operation to set the language back.

● When Another Language Has Been Inadvertently Selected

- 1 Press the four-way controller (►).**
- 2 Use the four-way controller (▲▼◀▶) to select the language and press the OK button.**

The [Initial Setting] screen appears in the selected language.

● When the Screen After Step 2 Appears in Another Language

- 1 Press the OK button.**
- 2 Press the MENU button.**
- 3 Press the four-way controller (►).**
- 4 Use the four-way controller (▼▲) to select [Language/言語].**
- 5 Press the four-way controller (►).**
The [Language/言語] screen appears.
- 6 Use the four-way controller (▲▼◀▶) to select the language.**
- 7 Press the OK button.**

The [Setting] menu appears in the selected language.

The language is now switched to your desired language. To reset [Hometown], [Date] and [Time], refer to the pages below for instructions.

- To change [Hometown], follow the steps in "Setting the World Time" (☞p.161).
- To change the [Date] and [Time], follow the steps in "Changing the Date and Time" (☞p.158).

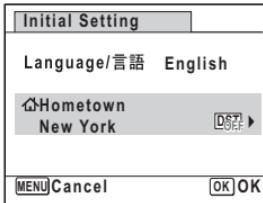
To Set Hometown and DST

- 3 Press the four-way controller (▼).**

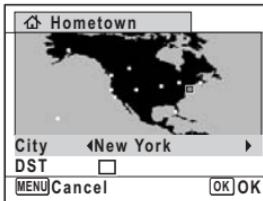
The frame moves to [Hometown].

- 4 Press the four-way controller (►).**

The [Hometown] screen appears.



- 5 Use the four-way controller (◀▶) to choose the city.**



- 6 Press the four-way controller (▼).**

The frame moves to [DST] (Daylight Saving Time).

- 7 Use the four-way controller (◀▶) to select (On) or (Off).**

- 8 Press the OK button.**

The [Initial Setting] screen appears.

- 9 Press the OK button.**

The [Date Adjust] screen appears. Next, set the date and time.

Setting the Date and Time

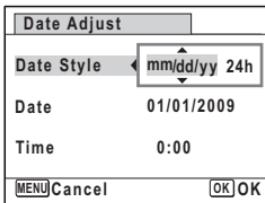
Set the current date and time and the display style.

-
- 1 Press the four-way controller (►).**

The frame moves to [mm/dd/yy].

- 2 Use the four-way controller (▲▼) to choose the date and time display style.**

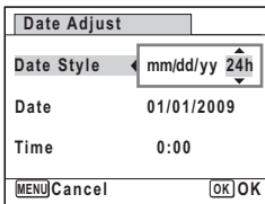
Choose from [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].



- 3 Press the four-way controller (►).**

The frame moves to [24h].

- 4 Use the four-way controller (▲▼) to select [24h] (24-hour display) or [12h] (12-hour display).**



- 5 Press the four-way controller (►).**

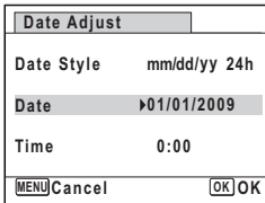
The frame returns to [Date Style].

- 6 Press the four-way controller (▼).**

The frame moves to [Date].

- 7 Press the four-way controller (►).**

The frame moves to the month.

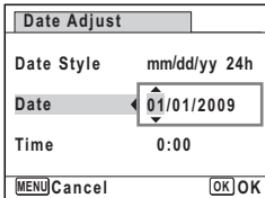


8 Use the four-way controller ($\blacktriangle \blacktriangledown$) to change the month.

Change the day and year in the same manner.

Next, change the time.

If you selected [12h] in Step 4, the setting switches between am and pm corresponding to the time.



9 Press the OK button.

The setting is saved and the camera returns to capture status.

[Language/言語], [Date], [Time], [Hometown], and [DST] can be changed. Refer to the pages below for instructions.

- To change the language, follow the steps in "Changing the Display Language" (☞p.163).
- To change the date and time, follow the steps in "Changing the Date and Time" (☞p.158).
- To change the city or turn DST on and off, follow the steps in "Setting the World Time" (☞p.161).



When the [Initial Setting] or [Date Adjust] screen is displayed, you can cancel the setting operation and switch to the capture mode by pressing the **MENU** button. In this case, the [Initial Setting] screen will appear next time you turn the camera on.



If you press the **OK** button in Step 9, the camera clock is reset to 00 seconds. To set the exact time, press the **OK** button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

The video output format (NTSC/PAL) is set to the format of the city selected in [Hometown] on the [Initial Setting] screen. Refer to "List of World Time Cities" (p.208) for the video output format of each city set as the initial setting, and "Changing the Video Output Format" (p.166) for changing the setting of the video output format.

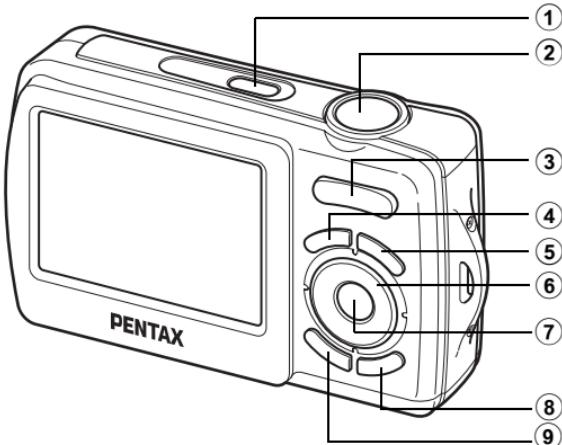
Memo

2 Common Operations

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Understanding the Button Functions

Mode



① Power switch

Turns the camera on and off (p.36).

② Shutter release button

Focuses the camera on the subject when pressed halfway in Still Picture Capture Mode (except in **PF** and **▲** modes) (p.61).

Takes the still picture when pressed down fully (p.61).

Starts and stops movie recording in **Movie** mode (p.99).

③ Zoom/❖/▲ button

Changes the captured area (p.71).

④ □ button

Switches to the **□** mode (p.50).

⑤ ☺ button

Switches the Face Recognition function (p.65). The Face Recognition function is switched as follows each time the ☺ button is pressed:

Smile Capture → Face Priority Off → Face Priority On

⑥ Four-way controller

- (▲) Changes the drive mode (p.83, p.84).
- (▼) Displays the Capture Mode Palette (p.63).
- (◀) Changes the flash mode (p.89).
- (▶) Changes the focus mode (p.91).

⑦ OK/DISPLAY button

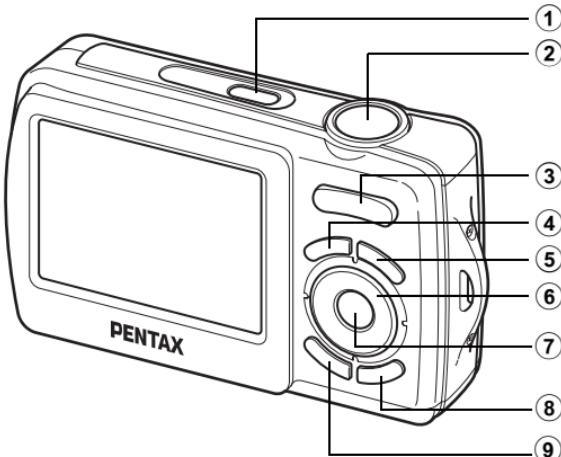
Changes the information on the display (p.18).

⑧ Green button

Switches to the ■ (Green) mode (p.69).

⑨ MENU button

Displays the [CAM Rec.Mode] menu (p.52).



① **Power switch**

Turns the camera on and off (p.36).

② **Shutter release button**

Switches to **►** mode (p.50).

③ **Zoom/□/Q button**

Press **□** during single-image display to change to four-image display, and press **□** again to change to nine-image display. Returns to the previous display when **Q** is pressed (p.108).

Enlarges the image when **Q** is pressed during single-image display. Returns to the previous display when **□** is pressed (p.116).

Press **□** during nine-image display to change to folder or calendar display (p.109).

Press **Q** during folder display to change to the normal nine-image display (p.109).

Press **Q** during calendar display to change to the normal nine-image display (p.109).

Adjusts the volume during playback of movies (p.107).

④ **► button**

Switches to **►** mode (p.50).

⑤ button

Zooms in on the subject's faces in the face-recognized image in the order the faces were recognized when the picture was taken. (Face close-up playback) (p.117).

⑥ Four-way controller

- (▲) Plays back and pauses a movie (p.107).
- (▼) Displays the Playback Mode Palette (p.112).
- (◀▶) Stops a movie during playback (p.107).
- (◀▶) Displays the previous or next image during single-image display (p.106).
Frame forwards, frame reverses, plays back in reverse, plays back normally, plays back in fast-forward, and plays back in reverse fast-forward when playing back movies (p.107).
- (▲▼◀▶) Moves the display area during zoom display (p.116).
Selects an image in four-image/nine-image display, a folder in folder display, and a date in calendar display (p.108, p.109).
Moves the image when using the Frame Composite function (p.141).

⑦ OK/DISPLAY button

Changes the information on the display (p.18).

Returns zoom display or four-image/nine-image display to single-image display (p.108, p.116).

Changes to nine-image display of the selected folder during folder display (p.109).

Changes to single-image display of the selected date during calendar display (p.109).

⑧ Green/ button

Switches from single-image display to the Delete screen (p.124).

Switches from four-image/nine-image display to the Select & Delete screen (p.125).

Switches from folder display to the calendar display screen (p.109).

Switches from calendar display to the folder display screen (p.109).

⑨ MENU button

Displays the [ Setting] menu during single-image display (p.52).

Returns to single-image display during Playback Mode Palette display (p.111).

Returns zoom display or four-image/nine-image display to single-image display (p.108).

Changes to nine-image display of the selected folder during folder display (p.109).

Changes to nine-image display of the selected date during calendar display (p.109).

Switching Between Mode and Mode

In this manual, the capture mode, such as for taking still pictures, is referred to as “ mode” (the capture mode). The playback mode, such as for displaying captured images on the display, is referred to as “ mode” (the playback mode). In mode, you can perform simple editing operations on the images that are played back.

Follow the procedure below to switch between mode and mode.

To Switch from Mode to Mode

1 Press the button.

The camera switches to mode.

To Switch from Mode to Mode

1 Press the button or the shutter release button halfway.

The camera switches to mode.

Displaying data stored in the built-in memory

When an SD Memory Card is inserted in the camera, images and movies on the SD Memory Card are displayed. If you want to display images and movies in the built-in memory, turn the camera off and remove the SD Memory Card, or follow the procedure below to use the "Built-in memory display" function.



Make sure that the camera is turned off before inserting or removing the SD Memory Card.

- **Viewing images in the built-in memory while the SD Memory Card is inserted (built-in memory display)**

- When you press and hold down the button for more than 1.2 seconds in mode or while a menu is being displayed, the lens retracted. After the message [Display image from built-in memory] appears, images and movies stored in the built-in memory are displayed.
- In the built-in memory display, you can play back still pictures (including enlarged display) (p.106, p.116) and movies (p.107), and switch between four-image display, nine-image display, folder display, and calendar display (p.108).
- In the built-in memory display, you cannot delete data, delete a selection, display the Playback Mode Palette, or display the menu. If you want to perform any of these operations on images or movies in the built-in memory, do so after removing the SD Memory Card.

Setting the Camera Functions

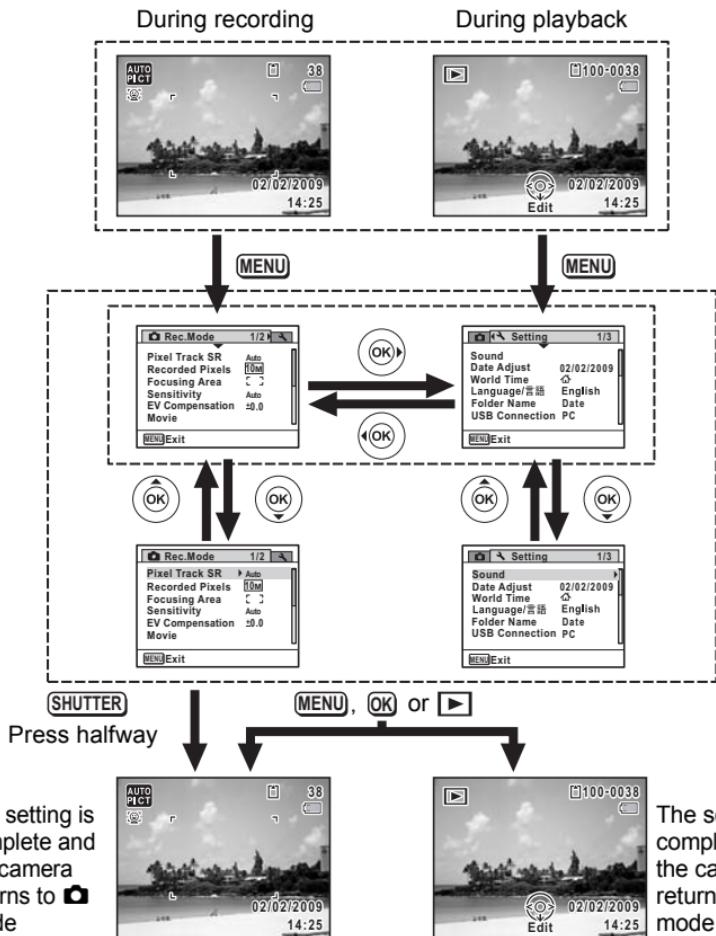
2

Common Operations

To change the camera settings, press the **MENU** button to display the [Rec.Mode] menu or [Setting] menu. Menus for playing back and editing images are displayed from the Playback Mode Palette.

Operating the Menus

Press the **MENU** button in mode to display the [Rec.Mode] menu.
Press the **MENU** button in mode to display the [Setting] menu.
Use the four-way controller () to switch between [Rec.Mode] menu and [Setting] menu.



The setting is complete and the camera returns to **REC** mode

The setting is complete and the camera returns to **PLAY** mode



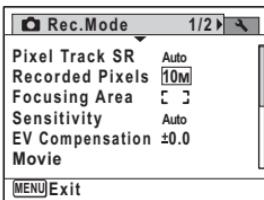
Available button operations appear on the display during menu operation.

Ex.) To set the [Focusing Area] on the [Rec.Mode] menu**1 Press the MENU button in mode.**

The Rec.Mode menu appears.

2 Press the four-way controller (▼).

The frame moves to [Pixel Track SR].

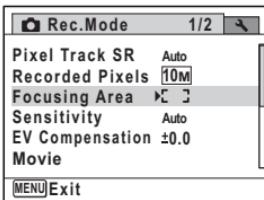
**3 Press the four-way controller (▼).**

The frame moves to [Focusing Area].

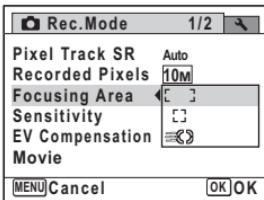
4 Press the four-way controller (►).

A pull-down menu appears with the items that can be selected.

The pull-down menu displays only those items that can be selected with the current camera settings.

**5 Use the four-way controller (▲ ▼) to change the setting.**

The focusing area changes each time the four-way controller (▲▼) is pressed.

**6 Press the OK button or the four-way controller (◀).**

The setting is saved and then the camera is ready for setting the other functions. To exit the settings, press the MENU button.

To use another operation, refer to the alternate Step 6 options on the next page.

To Save the Setting and Start Taking Pictures

6 Press the shutter release button halfway.

The setting is saved and the camera returns to capture status.

When the shutter release button is pressed fully, the picture is taken.



When the [Setting] menu is displayed from mode, you can switch to mode by pressing the button.

To Save the Setting and Begin Playback of Images

6 Press the button.

When the [Rec.Mode] menu is displayed from mode, the setting is saved and the camera returns to playback status.

To Cancel the Changes and Continue with Menu Operations

6 Press the MENU button.

The changes are canceled and the screen returns to Step 3.



The MENU button function differs depending on the screen. Refer to the guide indications.

Exit : Exits the menu and returns to the original screen.

↺ : Returns to the previous screen with the current setting.

Cancel : Cancels the current selection, exits the menu and returns to the previous screen.

Menu List

This displays the items that can be set with the menus and provides descriptions of each item. See the list of default settings in the Appendix "Default Settings" (p.203) to decide whether you want the settings saved when the camera is turned off and whether you want the settings returned to the defaults when the camera is reset.

2

[Rec.Mode] Menu

This menu shows the functions related to taking still pictures and recording movies.

Item	Description	Page
Pixel Track SR	For saving images after Shake Reduction process	p.73
Recorded Pixels	For choosing the number of recorded pixels of still pictures	p.93
Focusing Area	For changing the area of the autofocus	p.92
Sensitivity	For setting the sensitivity	p.96
EV Compensation	For adjusting the overall brightness of the picture	p.95
Movie Recorded Pixels	For choosing the number of recorded pixels of movies	p.101
Movie Movie SR	For choosing whether or not to use the movie shake reduction function	p.102
Blink Detection	For choosing whether to use the Blink Detection function when the Face Recognition function is activated	p.97
Digital Zoom	For choosing whether or not to use the digital zoom function	p.72
Memory	For choosing whether to save the set values of the shooting function or return to the defaults when the camera is turned off	p.103
Date Imprint	For choosing whether to imprint the date and/or time when taking still pictures	p.98



Use the (Green) mode to enjoy easy picture-taking using standard settings, regardless of the settings in the [Rec.Mode] menu (p.69).

[Setting] Menu

Item	Description	Page
Sound	For adjusting the operation volume and playback volume, and setting the start-up sound, shutter sound, key operation sound and self-timer sound	p.157
Date Adjust	For adjusting the date and time	p.158
World Time	For setting the Hometown and Destination	p.161
Language/言語	For setting the language in which menus and messages appear	p.163
Folder Name	For choosing how names are assigned to folders for storing images	p.164
USB Connection	For setting the USB cable connection (to a computer or a printer)	p.165
Video Out	For setting the output format to the AV equipment	p.166
Brightness Level	For changing the brightness of the display	p.167
Power Saving	For setting the time until the camera enters power-saving mode	p.168
Auto Power Off	For setting the time until the camera turns off automatically	p.169
Reset	For returning settings other than the date and time, language, world time and video out to their defaults	p.171
Delete All Images	For deleting all images at once.	p.170
Format	For formatting the SD Memory Card	p.156

Memo

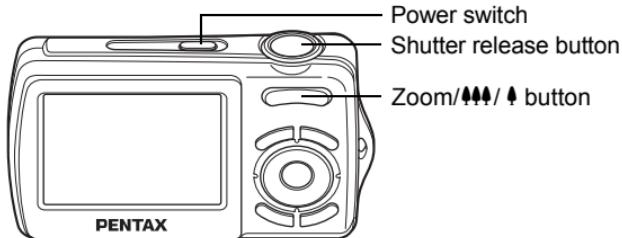
3 Taking Pictures

Taking Still Pictures	60
Setting the Shooting Functions	89
Recording Movies	99
Saving the Settings (Memory)	103

Taking Still Pictures

Taking Pictures

The Optio E70 features a wide range of shooting modes and functions to suit almost any subject or scene. This chapter describes how to take pictures with the most commonly used standard settings (the initial factory default settings).



3

Taking Pictures

1 Press the power switch.

The camera turns on and is ready to take still pictures. In this manual, this is called Still Picture Capture Mode.

2 Confirm the subject and shooting information on the display.

The focus frame in the middle of the display indicates the zone of automatic focusing.



When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).

You can change the captured area by pressing the Zoom/▲▼/◀▶ button to the left or right (p.71).

▶ (Right) enlarges the subject.

◀ (Left) widens the area that is captured by the camera.



3 Press the shutter release button halfway.

The focus frame (or face recognition frame) on the display turns green when the camera focuses on the subject at the correct distance.



4 Press the shutter release button fully.

The picture is taken.

The flash discharges automatically depending on the light conditions. The image appears on the display for two seconds (Instant Review) and is saved to the SD Memory Card or the built-in memory.



- Press the Green button to switch to the (Green) mode and let the camera set all the shooting functions automatically (p.69).
- When the Pixel Track SR activates, the shake reduction goes in process before the Instant Review of the image is displayed. Therefore it will require few seconds to display the Instant Review.

Using the Shutter Release Button

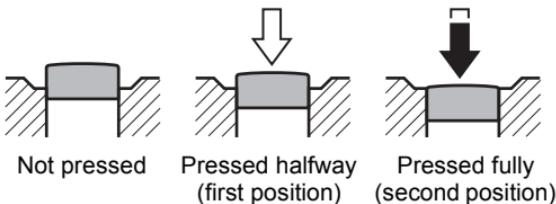
The shutter release button works in a two-step action as follows.

Press halfway

This refers to pressing the shutter release button gently to the first position. This locks the focus setting and the exposure. The green focus frame lights on the display when the shutter release button is pressed halfway and the subject is in focus. If the subject is out of focus, the frame turns white.

Press fully

This refers to pressing the shutter release button all the way down to the fully depressed position. This takes a picture.



Poor focusing conditions

The camera may not be able to focus under the following conditions. In these cases, lock the focus on an object the same distance away as the subject (by pressing and holding the shutter release button halfway), then aim the camera at your subject and press the shutter release button fully.

- Objects that lack contrast such as a blue sky or white wall
- Dark places or objects, or conditions that prevent light being reflected back
- Horizontal lines or intricate patterns
- Fast moving objects
- When there is an object in the foreground and an object in the background in the captured area
- Strongly reflected light or strong backlighting (bright background)

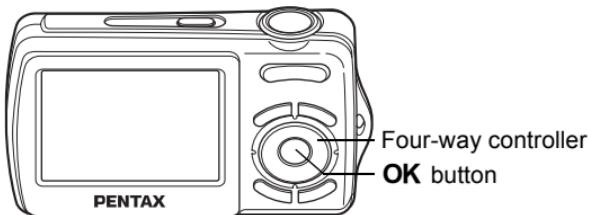
Blink Detection

If the camera detects that the subject's eyes are closed while the Face Recognition (p.65) is activated, the message [Closed eyes have been detected.] appears during Instant Review.

- When the Face Recognition function (p.65) does not work, Blink Detection also does not function. Even if the subject's faces are recognized, Blink Detection may not function depending on the condition of the recognized faces.
- You can also disable Blink Detection function (p.97).

Setting the Shooting Mode

The Optio E70 has a variety of shooting modes that let you take pictures or record movies in different situations simply by choosing the appropriate mode for the particular situation from the Capture Mode Palette.



1 Press the four-way controller (▼) in **mode**.

The Capture Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to choose a shooting mode.

When an icon is selected in the Capture Mode Palette, the selected shooting mode guide appears.



3 Press the OK button.

The shooting mode is selected and the camera returns to capture status.



Some functions may not be available or may not function fully depending on the selected shooting mode. For details, refer to "Functions Available for Each Shooting Mode" (p.196).

There are 18 available shooting modes.

Shooting Mode		Description	Page
	Auto Picture	Automatically selects the best capture mode.	p.67
	Program	Used for basic shooting. Various functions can also be set with this mode.	p.68
	Night Scene	For night time images. Use of a tripod or other support is suggested.	p.74
	Night Scene Portrait	For images of people at night. Use of a tripod or other support is advised.	p.74
	Half-length Portrait	For portraits with proper framing by automatic zoom. Fixed to [3M] pixels.	p.76
	Movie	For recording movies.	p.99
	Landscape	For capturing landscape views. Enhances colors of sky and foliage.	—
	Flower	For images of flowers. The outline of the flower is softened.	—
	Portrait	For capturing portraits. Reproduces healthy and bright skin tone.	p.76
	Surf & Snow	For bright images such as sand or snow. Accurately meters for bright scenes.	p.79
	Sport	For a fast moving subject. Tracks the subject until the picture is taken.	p.79
	Digital SR	Higher sensitivity reduces blur.	p.74
	Kids	For capturing moving kids. Reproduces a healthy and bright skin tone.	p.77
	Pet	For capturing moving pets. Select the color according to the pet's coat.	p.78
	Food	For images of food and prepared dishes. Enhances saturation and contrast.	—
	Digital Panorama	Stitches images taken with the camera to create a panoramic photograph.	p.86
	Frame Composite	For capturing images with a frame. Recorded pixels is fixed to [3M].	p.81
	Sunset	For images of sunsets and warm lighting.	p.74

Using the Face Recognition Function

With the Optio E70, the Face Recognition function is available with all shooting modes. When the camera detects a person's face in the image, the Face Recognition function displays a yellow face recognition frame around the face on the display screen, sets the focus (Face Recognition AF) and compensates the exposure (Face Recognition AE).

If the subject in the face recognition frame moves, the frame also moves and changes size as it tracks the face.

The Face Recognition function can recognize up to 32 people's faces. If it recognizes multiple faces, the camera displays a yellow frame over the main face and white frames over the other face(s). It can display up to a total of 15 frames, including a main frame and white frame(s).

By pressing the  button, you can switch to the Smile Capture function, which automatically releases the shutter when your subject smiles (p.66).



Face recognition frame

When multiple faces are recognized



Main frame White frame

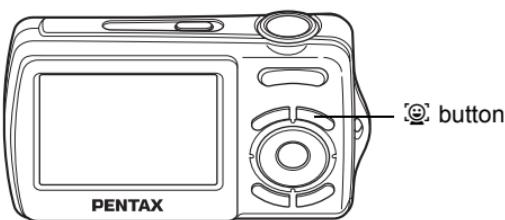


- Face Recognition AF and AE may not work if the subject is wearing sunglasses, has part of the face covered or is not looking toward the camera.
- If the camera cannot recognize the subject's face, the camera focuses using the setting currently selected in [Focusing Area].
- When the Smile Capture function is On, the shutter may not be released automatically because the Smile Capture function may not work in some situations, such as when the recognized face is too small.

To Switch the Face Recognition Function

By default, the Face Recognition function is set to Face Priority On. The Face Recognition function is switched as follows each time the  button is pressed:

Smile Capture → Face Priority Off → Face Priority On



Face Priority On



Smile Capture



Face Priority Off



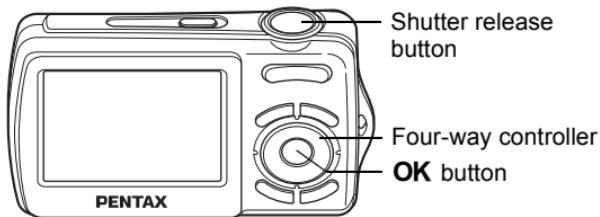
An icon indicating either Face Priority On or Smile Capture appears on the display. (The icon does not appear when the Face Recognition function is not activated.)



- The Face Recognition function cannot be set to off in  (Auto Picture),  (Night Scene Portrait),  (Half-length Portrait),  (Portrait) or  (Kids) mode. You can select either Face Priority On or Smile Capture.
- Face Priority On is automatically selected in  (Green),  (Auto Picture),  (Night Scene Portrait),  (Half-length Portrait),  (Movie),  (Portrait) or  (Kids) mode. When switching to another mode from one of these modes, the Face Recognition setting returns to the previous setting.

Taking Pictures Automatically (Auto Picture Mode)

In **AUTO PICT** (Auto Picture) mode, the camera automatically selects the most appropriate mode depending on the situations and subjects.



1 Press the four-way controller (▼) in **mode**.

The Capture Mode Palette appears.

2 Use the four-way controller (▲ ▼ ◀ ▶) to select **AUTO PICT**.

3 Press the **OK** button.

The **AUTO PICT** (Auto Picture) mode is selected and the camera returns to capture status.

When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).

4 Press the shutter release button halfway.

The focus frame on the display turns green and the selected shooting mode is displayed on the top left of the screen when the camera focuses on the subject at the correct distance.



	Standard		Night Scene		Night Scene Portrait
	Landscape		Flower		Portrait
	Sport				

5

Press the shutter release button fully.

The picture is taken.

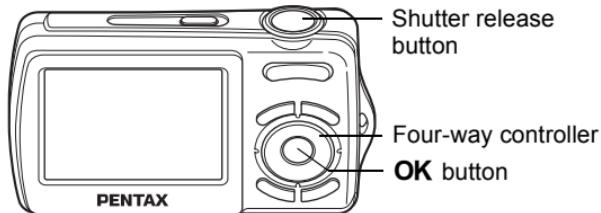


The following restrictions apply in **AUTO PICT** mode:

- You cannot turn the Face Recognition function off.
- The Focusing Area setting is fixed at (Multiple).
- The (Flower) mode cannot be selected when using Digital Zoom or Intelligent Zoom.
- If the (Night Scene) mode is selected when the flash mode is (Auto), the flash mode automatically changes to (Flash Off).
- When the drive mode is set to (Continuous Shooting), pictures are taken continuously in the appropriate shooting mode selected for the first picture.
- The camera automatically focuses on the subject when the focus mode is set to **AF** (Standard) or (Macro).

Taking Pictures in the Custom Settings (Program Mode)

In **P** (Program) mode, the camera automatically sets the shutter speed and aperture for taking still pictures. However, you can select other functions such as the flash mode and recorded pixels.

**1**

Press the four-way controller (**▼**) in **camera mode**.

The Capture Mode Palette appears.

2

Use the four-way controller (**▲ ▼ ◀ ▶**) to select **P**.

3

Press the OK button.

The **P** (Program) mode is selected and the camera returns to capture status.

**4**

Set the functions you want to change.

Refer to "Setting the Shooting Functions" (p.89 - p.98) for details on how to set the functions.

5

Press the shutter release button halfway.

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

6

Press the shutter release button fully.

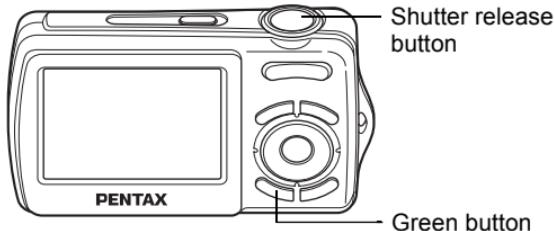
The picture is taken.

Taking Pictures in the Basic Mode (Green Mode)

In the **■** (Green) mode, you can enjoy easy picture-taking using standard settings, regardless of the settings in the [CAM Rec.Mode] menu. ■ mode settings are as shown below.

Flash Mode	Auto
Drive Mode	Standard
Focus Mode	AF (Standard)
Face Recognition	On
Information Display	Normal
Pixel Track SR	Auto
Recorded Pixels	10M (3648×2736)

Focusing Area	Multiple
Sensitivity	Auto
EV Compensation	±0.0
Blink Detection	<input checked="" type="checkbox"/> (On)
Digital Zoom	<input checked="" type="checkbox"/> (On)
Date Imprint	Off



3

Taking Pictures

1 Press the Green button in mode.

The camera switches to mode.

Press the Green button again to return to the status before mode was selected.

When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).



2 Press the shutter release button halfway.

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

3 Press the shutter release button fully.

The picture is taken.



- In mode, you cannot change the information on the display by pressing the **OK/DISPLAY** button.
- Press the **MENU** button in mode to display the [Setting] menu. The [Rec.Mode] menu cannot be displayed.
- When the camera is turned off in mode, it turns on in mode next time the power switch is pressed.

Using the Zoom

You can use the zoom to change the captured area.

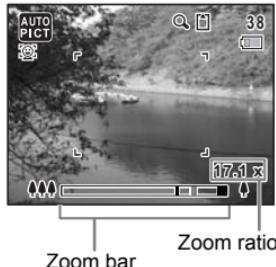


1 Press the Zoom/▲▼/◀▶ button in mode.

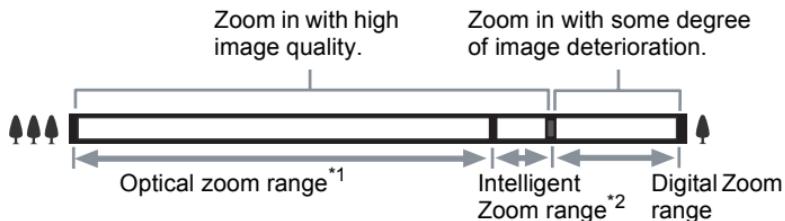
- ▲ (Right) enlarges the subject.
- ◀▶ (Left) widens the area that is captured by the camera.

When you press and hold the ▲ button, the camera automatically switches from optical zoom to intelligent zoom.

Once the button is released and pressed again, the camera switches to Digital Zoom.



The zoom bar is displayed as follow.



*1 You can zoom in to a maximum of 3x optically.

*2 The Intelligent Zoom range differs depending on the recorded pixels. See the following table.

Recorded pixels and the maximum zoom ratio

Recorded pixels	Intelligent Zoom	Digital Zoom
[10MH/10M]	Not Available (3× optical zoom only)	Equivalent to approx. 17.1×
[7M]	Approx. 3.5×	
[5M]	Approx. 4.2×	
[3M]	Approx. 5.3×	
[2.1M]	Approx. 5.7×	
[2M]	Approx. 6.8×	
[1024]	Approx. 10.7×	
[640]	Approx. 17.1× (Same as 17.1× Digital Zoom)	



- It is recommended to use a tripod to prevent camera shake when taking pictures at a high magnification rate.
- Pictures taken in the digital zoom range appear grainier than pictures taken in the optical zoom range.
- [2M]** is available only when shooting panoramic images.
- Intelligent Zoom is not available under the following conditions:
 - when the recorded pixels is set to **[10MH]** or **[10M]** (3× optical zoom available)
 - in **REC** (Digital SR) mode
 - when the sensitivity is set to 3200 or 6400
- The image enlarged using Intelligent Zoom may appear rough on the display. This does not affect the quality of recorded image.
- In **MOVIE** (Movie) mode, only Digital Zoom is available.

To Set the Digital Zoom

The digital zoom is set to (On) in the default settings. To take pictures using only the optical zoom and Intelligent Zoom, set the digital zoom to (Off).

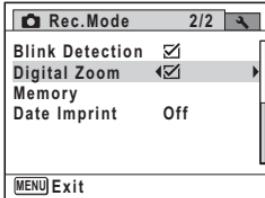
1 Press the MENU button in **REC** mode.

The **[REC] Rec.Mode** menu appears.

2 Use the four-way controller (**▲ ▼**) to select **[Digital Zoom]**.

- 3 Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to select (On) or (Off).**

The setting is saved.



- 4 Press the MENU button.**

The camera returns to capture status.

Saving the Digital Zoom Function setting → p.103

Using Pixel Track SR

In $\text{○} \text{○}$ (Pixel Track SR) mode, you can compensate for camera shake while you are shooting a still image. Pixel Track SR is set to [Auto] in the default settings.

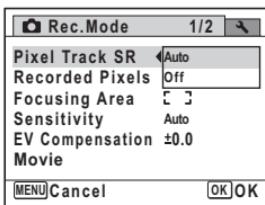
- 1 Press the MENU button in CAMERA mode.**

The $[\text{CAMERA}] \text{ Rec.Mode}$ menu appears.

- 2 Use the four-way controller ($\blacktriangleup \blacktriangledown$) to select [Pixel Track SR].**

- 3 Press the four-way controller (\blacktriangleright).**

A pull-down menu appears.



- 4 Use the four-way controller ($\blacktriangleup \blacktriangledown$) to select [Auto] or [Off].**

- 5 Press the OK button.**

- 6 Press the MENU button.**

The camera returns to capture status.



Pixel Track SR is not available under the following conditions:

- in (Frame Composite), (Digital Panorama) or (Half-length Portrait) mode
- while taking pictures in Continuous Shooting mode
- while recording a movie
- while using the self-timer
- when Sensitivity is set to 1600 or higher
- when the flash strobes



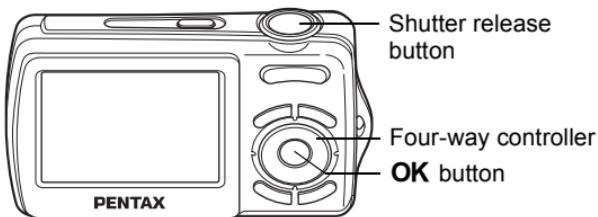
When the Pixel Track SR activates, the shake reduction goes in process before the Instant Review of the image is displayed. Therefore it will require few seconds to display the Instant Review.

3

Taking Pictures of Dark Scenes (Night Scene/Night Scene Portrait/Digital SR/Sunset Mode)

You can choose settings appropriate for taking pictures of dark scenes, such as nightscapes.

	Night Scene	For night time images. Use of a tripod or other support is suggested.
	Night Scene Portrait	For images of people at night. Use of a tripod or other support is advised.
	Digital SR	Higher sensitivity reduces camera shake blur.
	Sunset	For images of sunsets and warm lighting.



1

Press the four-way controller () in mode.

The Capture Mode Palette appears.

2 Use the four-way controller ($\blacktriangle \blacktriangledown \blackleftarrow \blackrightarrow$) to select or .

3 Press the OK button.

The shooting mode is selected and the camera returns to capture status.

When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).

4 Press the shutter release button halfway.

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

5 Press the shutter release button fully.

The picture is taken.



- The shutter speed tends to be slower when taking pictures of dark scenes.
- To prevent camera shake, use a tripod and/or the self-timer function (p.83).
- In mode, sensitivity is automatically set to Auto and the number of recorded pixels is fixed at **[5M]** (2592 × 1944).

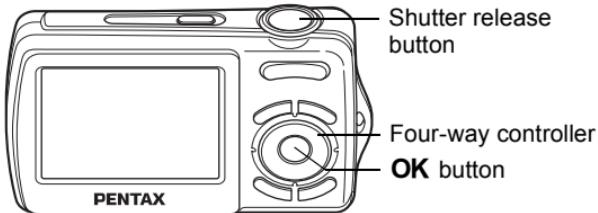
Taking Pictures of People (Half-length Portrait/ Portrait Mode)

(Half-length Portrait) and (Portrait) modes are suitable for taking pictures of people. Face Recognition (p.65) operates for each shooting mode, making it easier to emphasize the subject's face when taking pictures.

	Half-length Portrait	For portraits with proper framing by automatic zoom. Fixed to 3M pixels.
	Portrait	For capturing portraits. Reproduces healthy and bright skin tone.

3

Taking Pictures



1 Press the four-way controller (▼) in mode.

The Capture Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select or and press the OK button.

The shooting mode is selected and the camera returns to capture status.

When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).

If the camera recognizes a person's face in mode, an orange frame appears showing the area to be zoomed in.



3 Press the shutter release button halfway.

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

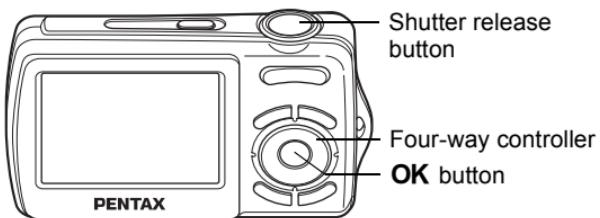
If the camera recognizes a person's face in **■** mode, the camera automatically zooms in to enlarge the area in the orange frame shown in Step 2.

4 Press the shutter release button fully.

The picture is taken.

Taking Pictures of Children (Kids Mode)

�� (Kids) mode is suitable for taking pictures of moving children. It also reproduces healthy and bright skin tone. Face Recognition (p.65) operates automatically for this mode, making it easier to emphasize the subject's face when taking pictures.



1 Press the four-way controller (▼) in **■** mode.

The Capture Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select **��**.

3 Press the OK button.

The **��** (Kids) mode is selected and the camera returns to capture status.

When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).



4 Press the shutter release button halfway.

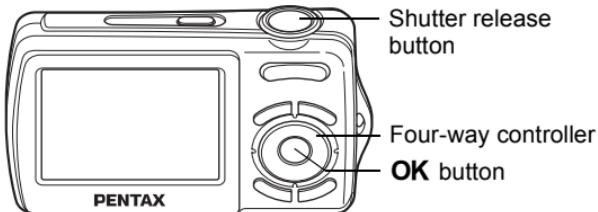
The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

5 Press the shutter release button fully.

The picture is taken.

Taking Pictures of Your Pet (Pet Mode)

Use this mode to keep your moving pet in focus while you take the picture and capture the color of your pet's coat. Choose the appropriate icon depending on what color your pet is (closer to black or white or in between).



1 Press the four-way controller (▼) in mode.

The Capture Mode Palette appears.

2 Use the four-way controller (▲ ▼ ◀ ▶) to select .

3 Press the OK button.

The Pet mode selection screen appears.

4 Use the four-way controller ($\Delta \nabla$) to select or .

There are two types of icons: a cat and dog icon. Choosing either the cat or dog icon does not affect the resulting picture. Choose whichever you prefer.

Choose an icon (white, gray, or black) whose tone best matches your pet's coat or fur.



5 Press the OK button.

The Pet mode is selected and the camera returns to capture status.

When the camera recognizes a person's face, the Face Recognition function is activated and the face recognition frame appears (p.65).



6 Press the shutter release button halfway.

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

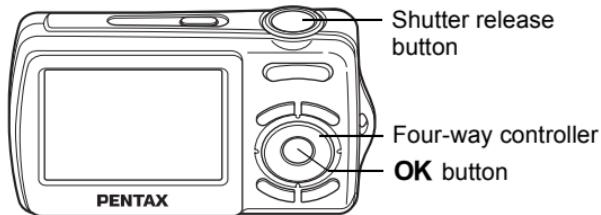
The focus frame follows the subject while the shutter release button is pressed halfway.

7 Press the shutter release button fully.

The picture is taken.

Taking Pictures of Sports and Leisure Activities (Surf & Snow/Sport Mode)

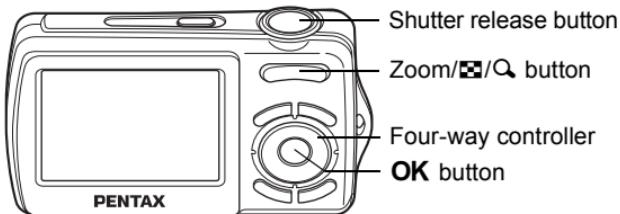
	Surf & Snow	For capturing images with dazzling backgrounds, snowy scenes or beaches.
	Sport	For fast moving subjects. Keeps the camera in focus until the shutter releases.



- 1 Press the four-way controller (▼) in mode.**
The Capture Mode Palette appears.
- 2 Use the four-way controller (▲▼◀▶) to select or .**
- 3 Press the OK button.**
The shooting mode is selected and the camera returns to capture status.
When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).
A thumbnail image of a soccer player in action. At the top right of the image are three icons: a battery level, a flash status, and a drive mode setting. At the bottom right are the date and time: "02/02/2009" and "14:25".
- 4 Press the shutter release button halfway.**
The focus frame on the display turns green when the camera focuses on the subject at the correct distance.
When the Sport mode is selected, the focus frame follows the subject while the shutter release button is pressed halfway.
- 5 Press the shutter release button fully.**
The picture is taken.

Framing Your Pictures (Frame Composite Mode)

In (Frame Composite) mode, you can take pictures using the frames stored in the camera.



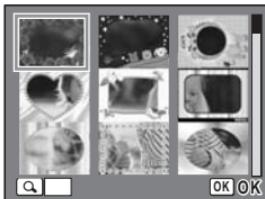
1 Press the four-way controller (in mode).

The Capture Mode Palette appears.

2 Use the four-way controller () to select and press the OK button.

A 9-frame display of the frame selection screen appears.

3 Use the four-way controller () to choose the frame you want to use.



4 Press on the Zoom// button.

The selected frame appears in single-image display.

You can choose another frame using either of the following operations.

Four-way controller () Press to choose a different frame.

Zoom// button () Press to return to the 9-frame display of the frame selection screen, and then perform Step 3 to choose a different frame.

5**Press the OK button.**

The frame appears on the display.

When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).

**6****Press the shutter release button halfway.**

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

7**Press the shutter release button fully.**

The picture is taken.



- In **[]** mode, recorded pixels is fixed at **[3M]** (2048 × 1536).
- At shipment, the camera includes 3 default frames and 87 optional frames built-in. (The CD-ROM supplied with the camera contains a total of 90 frames, including the default frames.)

Optional Frames

The optional frames are stored in the built-in memory in the Optio E70. These optional frames are deleted if the camera settings are reset or if the built-in memory files are deleted with a computer. To reload the optional frames into the built-in memory, copy the files from the CD-ROM (S-SW87) supplied with the camera (p.143).

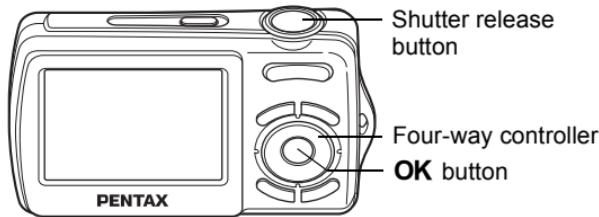
Adding a Frame to a captured image [p.141](#)

Using the Self-timer

In Self-timer mode, the picture is taken ten seconds or two seconds after the shutter release button is pressed.

Stabilize the camera with a tripod when taking a picture with the self-timer.

	Use this mode when you want to be included in a group picture. The picture is taken approximately ten seconds after the shutter release button is pressed.
	Use this mode to avoid camera shake. The picture is taken approximately two seconds after the shutter release button is pressed.



1 Press the four-way controller (▲) in mode.

2 Use the four-way controller (◀ ▶ ▾) to select or and press the OK button.

The camera is ready to take the picture using the self-timer.

When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).



3 Press the shutter release button halfway.

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

4 Press the shutter release button fully.

The picture is taken ten seconds or two seconds later.



Focusing may be compromised if you move the camera while the self-timer lamp is blinking when taking still pictures.



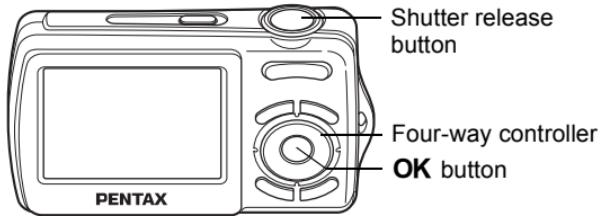
- In (Movie) mode, recording will start after ten seconds (or two seconds).
- Press the shutter release button halfway while the self-timer is engaged to stop the countdown and press fully to restart the countdown.
- cannot be selected while (Green) mode is in default setting. Select in another shooting mode and then switch the shooting mode to .

3

Taking a Series of Pictures (Continuous Shooting Mode)

In this mode, pictures are taken continuously as long as the shutter release button is pressed.

	Continuous Shooting	Each time a picture is taken, the image is saved in the memory before the next image is taken. The higher the image quality, the longer the interval between shots.
--	---------------------	---



1 Press the four-way controller (in mode.

2 Use the four-way controller ($\blacktriangle\blacktriangleright$) to select \blacksquare and press the OK button.

The camera is ready to take a series of pictures.



3 Press the shutter release button halfway.

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

4 Press the shutter release button fully.

Pictures are taken continuously as long as you keep the shutter release button pressed.



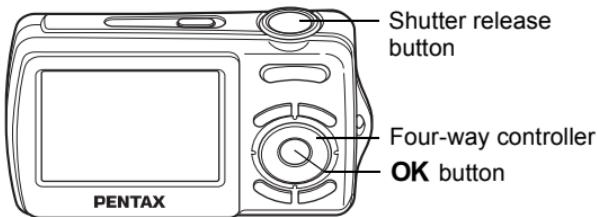
- The flash does not discharge in \blacksquare mode.
- \blacksquare cannot be selected in \blacksquare (Green), \blacksquare (Movie), \blacksquare (Frame Composite) or $\blacksquare\blacksquare$ (Digital Panorama) mode.
- Pixel Track SR does not operate in \blacksquare mode.



- In \blacksquare mode, you can continue shooting until the memory capacity of the SD Memory Card or the built-in memory is full.
- The interval of \blacksquare (Continuous Shooting) varies according to the Recorded Pixels settings.
- The focus and exposure are locked with the first shot.
- When the Face Recognition is activated (p.65), it works only when taking the first shot.
- Blink Detection function works only for the last shot.
- In AUTO_PICT (Auto Picture) mode, pictures are taken continuously in the appropriate shooting mode selected for the first shot.

Taking Panoramic Pictures (Digital Panorama Mode)

In (Digital Panorama) mode, you can stitch two or three captured frames to create a panoramic photograph with the camera.



- 1 Press the four-way controller () in mode.**
The Capture Mode Palette appears.
- 2 Use the four-way controller () to select .**
- 3 Press the OK button.**
The camera enters the mode and the message [Set shift direction] is displayed.
- 4 Use the four-way controller () to choose the direction in which the images will be joined.**
The screen for taking the first frame is displayed.



When the camera recognizes a face, the Face Recognition function is activated and the face recognition frame appears (p.65).



5**Press the shutter release button halfway.**

The focus frame on the display turns green when the camera focuses on the subject at the correct distance.

6**Press the shutter release button fully.**

The screen for taking the second frame is displayed after you take the first frame.

If you select right (►) in Step 4:

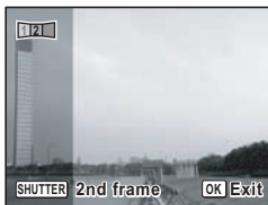
The right edge of the first frame appears in semi-transparent form on the left edge of the display.

If you select left (◀) in Step 4:

The left edge of the first frame appears in semi-transparent form on the right edge of the display.

7**Take the second frame.**

Move the camera so that the semi-transparent image and the actual view overlap and press the shutter release button.

**8****Take the third frame.**

Repeat Steps 5 to 7 to take the third frame.

The panorama stitching starts and a stitched image appears.



- To minimize distortion when taking the second or third frame, turn the camera so that it pivots around the right edge of the preview guide on the screen.
- Some distortion may result from moving objects, repeating patterns, or if nothing exists when overlapping the first and second frames or the second and third frames on the preview guide.
- When the Face Recognition is activated (p.65), it works only when taking the first frame.

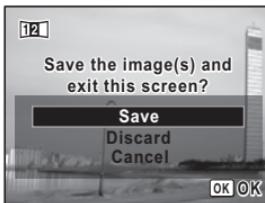
To Cancel after Taking the First or Second Frame

- 1 After shooting the first frame in Step 6 or second frame in Step 7, press the OK button or the four-way controller (▼).**

A confirmation dialog appears.

- 2 Use the four-way controller (▲▼) to select an option and press the OK button.**

- Save: Saves the captured image(s) and you can retake the first frame. When this option is selected after shooting the second frame, the first and the second frames are stitched and saved as a panoramic photograph.
- Discard: Discards the captured image(s) and you can retake the first frame.
- Cancel: Returns to the previous shooting screen.



Setting the Shooting Functions

Selecting the Flash Mode

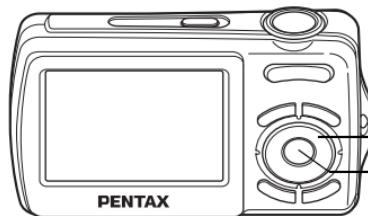
	Auto	The flash discharges automatically depending on the light conditions.
	Flash Off	The flash does not discharge, regardless of the brightness. Use this mode to take pictures where flash photography is prohibited.
	Flash On	The flash discharges regardless of the brightness.
	Flash On + Red-eye	This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash discharges regardless of the light conditions.



- The flash does not discharge () in (Movie) mode, or when the drive mode is set to (Continuous Shooting), or the focus mode is set to (Infinity).
- A pre-flash discharges when using the red-eye reduction function.
- In (Green) mode, you can only select or .
- In (Night Scene) mode, you cannot select .
- In (Night Scene Portrait) mode, or when the Face Recognition is set to On and the flash is set to , the flash mode will automatically change to when a face is recognized.



- Using the flash when capturing images at a close distance may cause irregularities in the image due to the light distribution.
- Pixel Track SR does not operate when the flash discharges.



Four-way controller
OK button

3

Taking Pictures

1 Press the four-way controller (\blacktriangleleft) in CAMERA mode.

The flash mode changes each time the button is pressed. You can also change the setting using the four-way controller ($\blacktriangledown\blacktriangleup$).



2 Press the OK button.

The setting is saved and the camera returns to capture status.

About the red-eye phenomenon

Taking pictures using the flash may cause the subject's eyes to appear red in the resulting picture. This phenomenon occurs when the light from the flash is reflected in the subject's eyes. It can be reduced by illuminating the area around the subject or moving closer to the subject and zooming out to a wider angle. Setting the flash mode to $\text{Flash On} + \text{Red-eye}$ is also an effective way of reducing red eyes.

If the subject's eyes appear red despite such precautions, they can be corrected by the red-eye compensation function (p.140).

Saving the Flash Mode setting \Rightarrow p.103

AF	Standard	Use this mode when the distance to the subject is 40 cm (16 in.) or more. The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway.
	Macro	This mode is used when the distance to the subject is approx. 10 cm to 50 cm (4 in. to 20 in.). The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway.
PF	Pan Focus	This mode is used when you ask someone to take pictures for you, or when taking pictures of the scenery through the window of a car or train. The entire picture, from the front to the back, is focused.
	Infinity	This mode is used for taking distant objects. The flash is set to (Flash Off).

1 Press the four-way controller () in mode.

The focus mode changes each time the button is pressed. You can also change the setting using the four-way controller ().



2 Press the OK button.

The setting is saved and the camera returns to capture status.



- In (Green) mode, you can only select **AF**, or **PF**.
- When **AF** (Standard) is selected and the subject is closer than 40 cm, the camera automatically focuses from 10 cm (Auto-Macro function). In this case, appears on the display.
- When shooting with selected, if the subject is further than 50 cm away, the camera automatically focuses to ∞ (Infinity).
- When shooting with selected, even if the subject is not in focus, the camera is able to shoot the image. In this case, a blurred image will be shot.

Saving the Focus Mode setting p.103

To Set the Focusing Area

You can change the autofocus area (Focusing Area).

	Multiple	Normal autofocus area
	Spot	The autofocus area becomes smaller.
	Automatic Tracking AF	Keeps moving subjects in focus.

1 Press the MENU button in  mode.

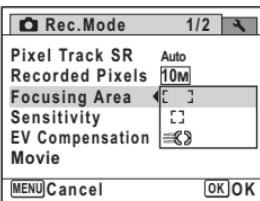
The [ Rec.Mode] menu appears.

2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Focusing Area].

3 Press the four-way controller (\blacktriangleright).

A pull-down menu appears.

4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to change the Focusing Area setting.



5 Press the OK button.

The setting is saved.

6 Press the MENU button.

The camera returns to capture status.



- In  (Movie) and  (Frame Composite) modes, Focusing Area cannot be set to .
- In  (Green) and  (Auto Picture) modes, Focusing Area is fixed at .

Selecting the Recorded Pixels

You can choose from seven recorded pixels settings for still pictures. The larger your recorded pixels, the clearer the details will appear when you print your picture. As the quality of the printed picture also depends on the image quality, exposure control, resolution of the printer and other factors, you do not need to select more than the required number of recorded pixels. **3M** (2048×1536) is adequate for making postcard-size prints. The more pixels there are, the larger the picture and the bigger the file size. (**10MH** is higher in quality than **10M**) Refer to the following table for the appropriate settings according to use.

Recorded Pixels	Use
10MH 3648×2736	↑ Clearer
10M 3648×2736	
7M 3072×2304	
5M 2592×1944	
3M 2048×1536	
2.1M 1920×1080 (16 : 9)	
1024 1024× 768	
640 640× 480	

The default setting is **10M** (3648×2736).

Shooting/Playback screen when **2.1M** is selected

If you select **2.1M** as the Recorded Pixels setting, the aspect ratio of the image is 16:9 and the monitor display is as shown on the right.

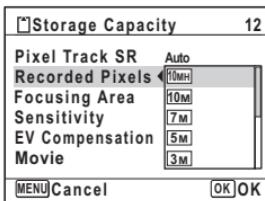


1 Press the MENU button in mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller () to select [Recorded Pixels].**3 Press the four-way controller () .**

A pull-down menu appears.

4 Use the four-way controller () to change the number of recorded pixels.**5 Press the OK button.**

The setting is saved.

6 Press the MENU button.

The camera returns to capture status.



- The number of recorded pixels for images captured in (Green) mode is fixed at **[10M]**.
- The number of recorded pixels for images captured in (Half-length Portrait) or (Frame Composite) is fixed at **[3M]**.
- The number of recorded pixels for images captured in (Digital SR) mode is fixed at **[5M]**.

Setting the Exposure (EV Compensation)

You can adjust the overall brightness of the picture.

Use this function to take pictures that are intentionally overexposed or underexposed.

1 Press the MENU button in mode.

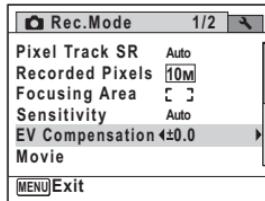
The [Rec.Mode] menu appears.

2 Use the four-way controller () to select [EV Compensation].

3 Use the four-way controller () to select the EV value.

To brighten, select a positive (+) value. To darken, select a negative (-) value.

You can choose the EV setting in the range of -2.0 EV to +2.0 EV in 1/3 EV steps.



4 Press the MENU button.

The camera returns to capture status.



The EV compensation function cannot be used in (Green) or (Auto Picture) mode.

Saving the EV Compensation Value setting p.103

Setting the Sensitivity

You can select the sensitivity to suit the brightness of the surroundings.

Auto	The sensitivity is automatically adjusted by the camera. (Sensitivity 64 - 800)
64	The lower the sensitivity, the less noise that affects the image. The shutter speed will be slower in low light conditions.
100	
200	
400	
800	
1600	
3200	
6400	



Higher sensitivity settings use faster shutter speeds in low light conditions to reduce camera shake, but the image may be affected by noise.

-
- 1 Press the MENU button in mode.**

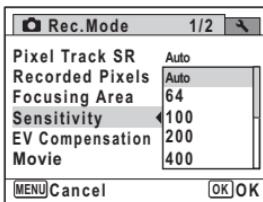
The [Rec.Mode] menu appears.

-
- 2 Use the four-way controller () to select [Sensitivity].**

-
- 3 Press the four-way controller () .**

A pull-down menu appears.

-
- 4 Use the four-way controller () to change the sensitivity.**



-
- 5 Press the OK button.**

The setting is saved.

-
- 6 Press the MENU button.**

The camera returns to capture status.



- When Sensitivity is set to 3200 or 6400, the number of recorded pixels is fixed at [5M].
- When set to (Green) or (Movie) mode, only Auto (sensitivity 64 - 800) is available.
- When set to (Digital SR) mode, only Auto (sensitivity 64 - 6400) is available.
- When Sensitivity is set to 1600 or higher, Pixel Track SR does not operate.

Saving the sensitivity setting [p.103](#)

3

Setting Blink Detection

This specifies whether Blink Detection works when you use the Face Recognition function.

1 Press the MENU button in **REC** mode.

The [REC Rec.Mode] menu appears.

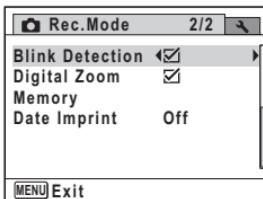
2 Use the four-way controller (**▲ ▼**) to select [Blink Detection].

3 Use the four-way controller (**◀ ▶**) to select (On) or (Off).

The setting is saved.

(On) Blink Detection function works.

(Off) Blink Detection does not function.



4 Press the MENU button.

The camera returns to capture status.

Blink Detection [p.62](#)

Setting the Date Imprint Function

You can choose whether to imprint the date and/or time when taking still pictures.

1 Press the MENU button in **REC** mode.

The [REC Mode] appears.

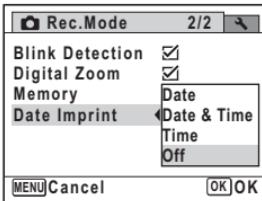
2 Use the four-way controller (**▲ ▼**) to select [Date Imprint].

3 Press the four-way controller (**▶**).

A pull-down menu appears.

4 Use the four-way controller (**▲ ▼**) to select the Date Imprint details.

Choose from [Date], [Date & Time], [Time] or [Off].



5 Press the OK button.

The setting is saved.

6 Press the MENU button.

The camera returns to capture status.

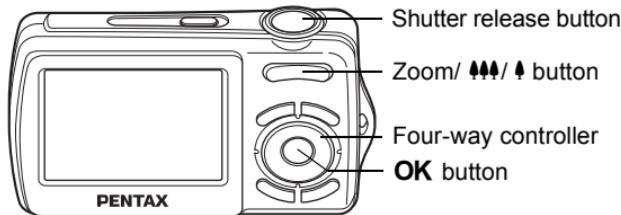


- **DATE** appears on the display in **REC** mode when [Date Imprint] is set.
- The date and/or time imprinted with the Date Imprint function cannot be deleted.
- The date and/or time are imprinted on the picture with the display style set in the [Date Adjust] screen (p.42).
- Note that if the printer or the image editing software is set to print the date and the images to be printed already have the date and/or time imprinted, the imprinted dates and/or times may overlap.

Recording Movies

Recording a Movie

This mode enables you to record movies. Sound is recorded at the same time.



3

Taking Pictures

1 Press the four-way controller (▼) in **■** mode.

The Capture Mode Palette appears.

2 Use the four-way controller (▲ ▼ ▲ ▾) to select **■** (Movie).



3 Press the OK button.

■ (Movie) mode is selected and the camera returns to capture status. The following information appears on the display.

1 Movie mode icon

2 Recording indicator (blinks during recording)

3 Remaining recordable time

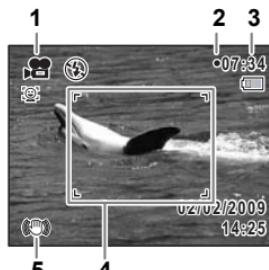
4 Focus frame (does not appear during recording)

5 Movie shake reduction function icon

You can change the captured area by pressing the Zoom/ $\frac{1}{4}$ / $\frac{1}{2}$ button to the left or right.

▲ (Right) enlarges the subject.

■■■ (Left) widens the area that is captured by the camera.



4 Press the shutter release button fully.

Recording starts. You can continue recording until the built-in memory or the SD Memory Card is full, or the size of the recorded movie reaches 2 GB.



- The flash does not discharge in (Movie) mode.
- The focus mode can be changed before recording starts.
- You can use the optical zoom only before recording, while the digital zoom is available both before and during recording.
- When the shooting mode is set to (Movie), Face Priority is automatically set to on. You can select Smile Capture or Face Priority Off by pressing the button before starting recording a movie (p.65). When Smile Capture is activated, movie recording starts automatically when the camera recognizes the subject's smile. However, depending on the condition of the recognized faces, movie recording may not start automatically because the Smile Capture function may not work. If this happens, press the shutter release button to start movie recording.

5 Press the shutter release button fully.

Recording stops.

Playing Back a Movie

Keeping the Shutter Release Button Pressed

If you keep the shutter release button pressed for more than one second, recording will continue as long as you keep the button pressed. Shooting stops when you take your finger off the shutter release button.

Selecting the Recorded Pixels for Movies

You can choose from four recorded pixels settings for movies: [640₀], [640₅], [320₀] and [320₅].

The more pixels there are, the clearer the details and the bigger the file size. 30fps will give smoother movies than 15fps, but file size will increase.

[640 ₀] (640×480, 30fps), [640 ₅] (640×480, 15fps)	Suitable for viewing on a TV or computer screen.
[320 ₀] (320×240, 30fps), [320 ₅] (320×240, 15fps)	Suitable for posting on a website or attaching to e-mail.

The default setting is [640₀] (640×480 30fps).

- 1 Press the MENU button in mode.**

The [Rec.Mode] menu appears.

- 2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Movie].**

- 3 Press the four-way controller (\blacktriangleright).**

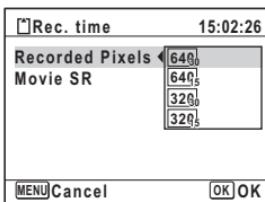
The [Movie] screen appears.

- 4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Recorded Pixels].**

- 5 Press the four-way controller (\blacktriangleright).**

A pull-down menu appears.

- 6 Use the four-way controller ($\blacktriangle \blacktriangledown$) to change the number of recorded pixels.**



- 7 Press the OK button.**

The setting is saved.

- 8 Press the MENU button twice.**

The camera returns to capture status.

Setting the Movie SR (Movie Shake Reduction) Function

In (Movie) mode, you can compensate for camera shake while you are recording a movie with the Movie SR (Movie Shake Reduction) function.

-
- 1 Press the MENU button in mode.**

The [Rec.Mode] menu appears.

-
- 2 Use the four-way controller () to select [Movie].**

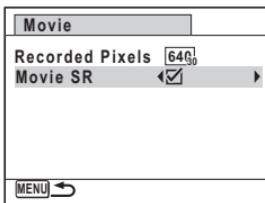
-
- 3 Press the four-way controller ().**

The [Movie] screen appears.

-
- 4 Use the four-way controller () to select [Movie SR].**

-
- 5 Use the four-way controller () to select (On) or (Off).**

The setting is saved.



-
- 6 Press the MENU button twice.**

The camera returns to capture status.

Saving the Settings (Memory)

The Memory function is for saving the current camera settings when the camera is turned off.

For some camera settings, the Memory function is always set to (On) (the settings are saved when the camera is turned off), while for others you can choose on or off (to choose whether the settings are saved or not when the camera is turned off). The items which can be set to (On) or (Off) in the Memory function are shown in the table below. (Items not listed here are always saved in the selected settings when the camera is turned off.)

If you select (On), the settings will be saved in the status they were in immediately before the camera was turned off. If you select (Off), the settings will be reset to the defaults when the camera is turned off. The table below also shows whether the Memory default setting for each item is on or off.

Item	Description	Default Setting	Page
Face Priority	A Face Recognition mode set by using the button.	<input type="checkbox"/>	p.65
Flash Mode	The flash mode set with the four-way controller ()	<input checked="" type="checkbox"/>	p.89
Drive Mode	The drive mode set with the four-way controller ()	<input type="checkbox"/>	p.83 p.84
Focus Mode	The focus mode set with the four-way controller ()	<input type="checkbox"/>	p.91
Zoom Position	The zoom position set with the Zoom// button	<input type="checkbox"/>	p.71
Sensitivity	The [Sensitivity] setting on the Rec.Mode menu	<input type="checkbox"/>	p.96
EV Compensation	The [EV Compensation] setting on the Rec.Mode menu	<input type="checkbox"/>	p.95
Digital Zoom	The [Digital Zoom] setting on the Rec.Mode menu	<input checked="" type="checkbox"/>	p.72
DISPLAY	The information display mode set with the OK/DISPLAY button	<input type="checkbox"/>	p.18
File No.	If a new SD Memory Card is inserted when On has been selected, file numbers are assigned sequentially.	<input checked="" type="checkbox"/>	—

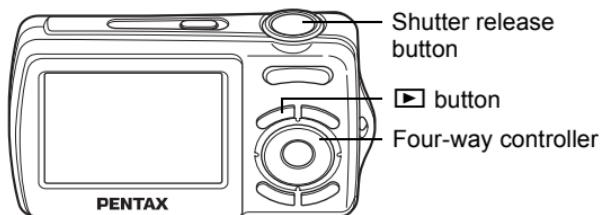
- 1 Press the MENU button in mode.**
The [Rec.Mode] menu appears.
 - 2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Memory].**
 - 3 Press the four-way controller (\blacktriangleright).**
The [Memory] screen appears.
 - 4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to choose an item.**
- | | |
|-----------------|-------------------------------------|
| Memory | 1 / 2 |
| Face Priority | <input type="checkbox"/> |
| Flash Mode | <input checked="" type="checkbox"/> |
| Drive Mode | <input type="checkbox"/> |
| Focus Mode | <input type="checkbox"/> |
| Zoom Position | <input type="checkbox"/> |
| Sensitivity | <input type="checkbox"/> |
| [MENU] [Cancel] | [OK] [OK] |
- 5 Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to select (On) or (Off).**
 - 6 Press the OK button.**
The setting is saved.
 - 7 Press the MENU button.**
The camera returns to capture status.

4 Playing Back and Deleting Images

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Playing Back Images

Playing Back Still Pictures



4

1 Press the ▶ button after taking a picture.

The camera enters the ▶ mode and the image appears on the display. Displaying one image in full in ▶ mode (▶ mode default setting) is called single-image display.



Playing Back and Deleting Images

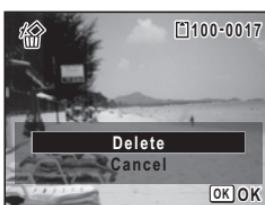
To Play Back the Previous or Next Image

2 Press the four-way controller (◀▶).

The previous or next image appears.

To Delete the Displayed Image

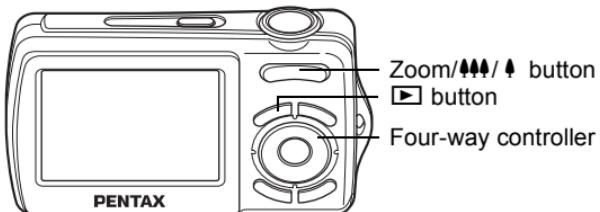
Press the ~~W~~ button while the image is displayed to display the Delete screen. Press the four-way controller (▲) to select [Delete] and press the **OK** button (p.124).



For information on other deletion procedures ➤ p.124

Playing Back a Movie

You can play back the movies you have taken. Sound is played back at the same time.



- 1 Enter the □ mode and use the four-way controller (◀▶) to choose the movie you want to play back.**
- 2 Press the four-way controller (▲).**

Playback starts.



The following operations can be performed during playback.

- Four-way controller (◀) Plays back in reverse
- Four-way controller (▲) Pauses playback
- Four-way controller (◀) Plays back in reverse fast-forward (10×)
pressed long
- Four-way controller (▶) Plays back in fast-forward (10×)
pressed long
- Zoom/▲/▼ button (▲) Increases the volume
- Zoom/▲/▼ button (▼) Reduces the volume

The following operations can be performed while playback is paused.

- Four-way controller (◀) Reverses the playback one frame at a time.
- Four-way controller (▶) Forwards the playback one frame at a time.
- Four-way controller (▲) Resumes playback



To cancel playing back in fast-forward, press four-way controller (▶) long, and to cancel playing back in reverse fast-forward, press four-way controller (◀) long. The camera returns to either playback in reverse or normal playback.

3 Press the four-way controller (▼).

Playback stops.

Four-Image Display, Nine-Image Display, Folder Display and Calendar Display

Four-Image/Nine-Image Display

4

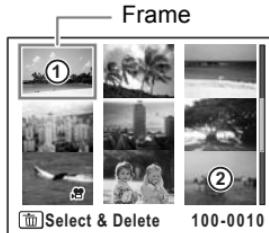
You can display four or nine thumbnails of captured images at a time.



1 In ► mode, press ■ on the Zoom/[■]/Q button.

A page consisting of four thumbnail images appears. The displayed images change four at a time page by page. Press ■ again to display a page consisting of nine-thumbnail images. The displayed images change nine at a time page by page as well. Press Q on the Zoom/[■]/Q button to return to single-image display from four-image display, and to four-image display from nine-image display.

Use the four-way controller (▲▼◀▶) to move the frame. When five or more images have been saved for four-image display or 10 or more images have been saved for nine-image display, if you choose image ① and press the four-way controller (▲◀), the previous page appears. Similarly, if you



choose image ② and press the four-way controller ($\blacktriangle \blacktriangleright$), the next page appears.

The icons that appear on the images indicate the following:

- | | |
|-----------|---------------------------------|
| (No icon) | Still picture |
| | Movie (the first frame appears) |

Press the **OK** button or the **MENU** button to switch to single-image display of the selected image.

Press the button or the shutter release button to switch to mode.

To Switch to Folder Display or Calendar Display

In nine-image display, press on the Zoom// button to switch to folder display or calendar display. Press the Green button to switch between folder display and calendar display.

1 In mode, press on the Zoom// button.

The screen changes to four-image display. Press again to change the screen to nine-image display.

2 Press on the Zoom// button.

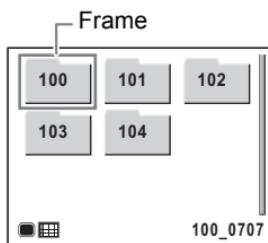
The screen changes to folder display or calendar display.

Folder display

The list of folders with recorded images appears.

Use the four-way controller ($\blacktriangle \blacktriangleright \blacktriangleleft \blacktriangleright$) to move the frame.

Press the **OK** button or on the Zoom// button to display the images in the selected folder in nine-image display.

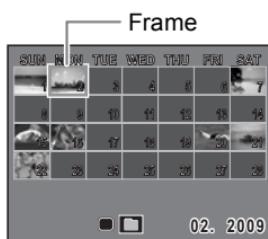


Calendar display

Recorded images are displayed by date in calendar format.

The first image recorded on a date is displayed for that date on the calendar.

Use the four-way controller ($\blacktriangle \blacktriangleright \blacktriangleleft \blacktriangleright$) to move the frame to a different date.



Press **Q** on the Zoom/**■/Q** button to display the images for a date in nine-image display.

Select a date and press the **OK** button to switch to single-image display of the first image recorded on that date.

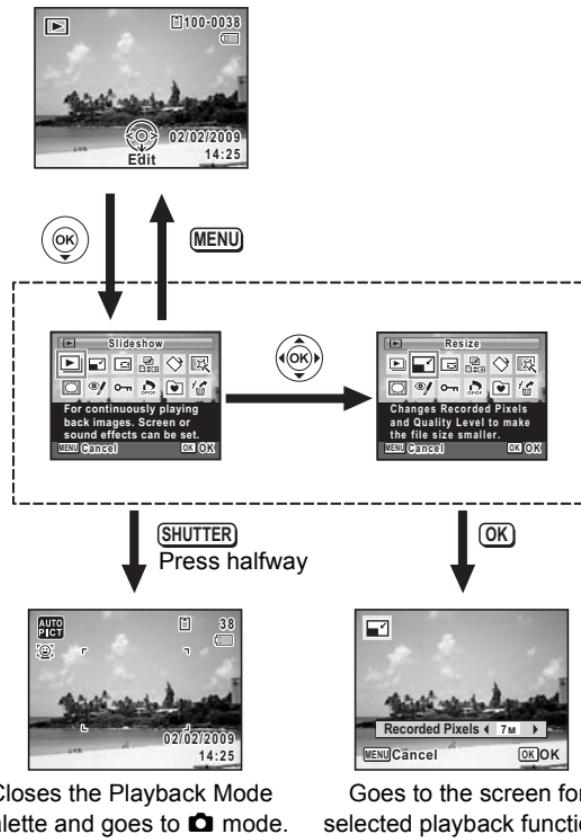


- Press the **MENU** button in folder display or calendar display to switch to nine-image display.
- Press the **■** button or half-press the shutter release button in folder display or calendar display to switch to **■** mode.

Using the Playback Function

Press the four-way controller (▼) in **[]** mode to display the Playback Mode Palette.

You can display the playback function you want to use simply by using the four-way controller (▲ ▼ ◀ ▶) to choose an icon and pressing the **OK** button.



Closes the Playback Mode Palette and goes to **[]** mode.

Goes to the screen for selected playback function.



When an icon is selected in the Playback Mode Palette, a guide for the selected function appears.

Playback Mode Palette

Playback Mode	Description	Page
 Slideshow	For continuously playing back images. Screen or sound effects can be set.	p.113
 Resize	Changes Recorded Pixels and Quality Level to make the file size smaller.	p.134
 Cropping	For cropping images to the size you like. Saved as a new image.	p.135
 Image Copy	To copy images between the built-in memory and an SD Memory Card.	p.144
 Image Rotation	Rotates captured images. Useful when viewing vertical images on a TV.	p.115
 Digital Filter	Apply the digital filters to images such as Color or Brightness filters.	p.137
 Frame Composite	For composing an image with a frame. Select Overwrite or Save as to save.	p.141
 Red-eye Compensation	For compensating red-eye. May not work due to the condition of the image.	p.140
 Protect	Protects images from accidental deletion. Formatting will delete.	p.127
 DPOF	For the print settings. Useful when printing at a printing service.	p.146
 Favorites	Sets images as favorites. Copies to internal memory and resizes to 640×480.	p.118
 Image Recovery	For recovering image which were accidentally deleted.	p.126

Slideshow

You can play back recorded images one after another.

- 1 Enter the  mode and use the four-way controller ($\blacktriangleleft\blacktriangleright$) to choose an image to start the slideshow with.**
- 2 Press the four-way controller (\blacktriangledown).**
The Playback Mode Palette appears.
- 3 Use the four-way controller ($\blacktriangleup\blacktriangledown\blacktriangleleft\blacktriangleright$) to select  (Slideshow).**



- 4 Press the OK button twice.**

The slideshow starts.

Pressing the **OK** button during the slideshow pauses the slideshow.
To resume the slideshow, press the **OK** button again.

- 5 Press any button other than the OK button.**

The slideshow stops.

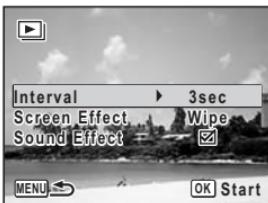
To Set the Slideshow Conditions

You can set the playback interval and also a screen effect and sound effect for when one image changes to the next.

- 1 Press the four-way controller (\blacktriangledown) in  mode.**
The Playback Mode Palette appears.
- 2 Use the four-way controller ($\blacktriangleup\blacktriangledown\blacktriangleleft\blacktriangleright$) to select  (Slideshow).**

3 Press the OK button.

The screen for setting the slideshow conditions appears.

4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Interval].**5 Press the four-way controller (\blacktriangleright).**

A pull-down menu appears.

6 Use the four-way controller ($\blacktriangle \blacktriangledown$) to change the interval and press the OK button.

Choose from [3sec], [5sec], [10sec], [20sec] or [30sec].

7 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Screen Effect].

After selecting [Screen Effect], press the four-way controller (\blacktriangleright). A pull-down menu appears with the following items. Use the four-way controller ($\blacktriangle \blacktriangledown$) to select an item and press the OK button.

Wipe	The next image slides over the previous one from left to right
Checker	The next image appears in small square mosaic blocks
Fade	The current image gradually fades out and the next image fades in
Off	No effect

8 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Sound Effect].**9 Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to select (On) or (Off).**

Except when the [Screen Effect] is set to Off, you can choose (On) or (Off) for the sound that is played when one image changes to the next.

10**Press the OK button.**

The slideshow starts using the selected interval and effect.



- The slideshow will continue until you press any button other than the **OK** button.
- Movies will normally be played through to the end before the next picture is played back, regardless of the interval setting. However, pressing the four-way controller (►) while playing back a movie skips to the next image.
- Panorama images will be scrolled for display from left to right in 4 seconds before the next picture is played back, regardless of the settings of [Interval] or [Screen Effect].

Connecting the Camera to AV Equipment ➔ p.130

Rotating the Image**1 Press the ▶ button after taking a picture.**

The image appears on the display.

2 Press the four-way controller (▼).

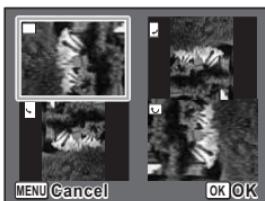
The Playback Mode Palette appears.

3 Use the four-way controller (▲▼◀▶) to select ◇ (Image Rotation) and press the OK button.

The rotation selection screen (0°, Right 90°, Left 90°, or 180°) appears.

4 Use the four-way controller (▲▼◀▶) to choose the rotation direction and press the OK button.

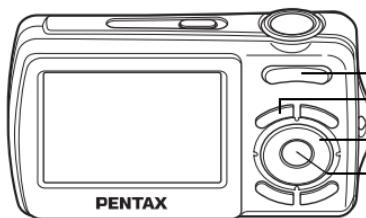
The rotated image is saved.



- Panoramic images and movies cannot be rotated.
- Protected images can be rotated, but they cannot be saved in a rotated state.

Zoom Playback

You can magnify an image up to ten times.



Zoom/■/Q button
► button
Four-way controller
OK button

- 1 Enter the ► mode and use the four-way controller (◀▶) to choose the image you want to magnify.

- 2 Press Q on the Zoom/■/Q button.

The image is magnified (x1.1 to x10). Holding down Q on the Zoom/■/Q button changes the magnification continuously. You can use the + mark of the guide at the bottom left of the screen to check which portion of the image is magnified.



Guide

The following operations can be performed while the magnified image is displayed.

Four-way controller (▲▼◀▶)	Moves the position to be magnified
Zoom/■/Q button (Q)	Makes the image bigger (max. x10)
Zoom/■/Q button (■)	Makes the image smaller (min. x1.1)

- 3 Press the OK button.

The image returns to single-image display.



Movies cannot be magnified.

Zoom In On the Subject's Face Automatically (Face Close-up Playback)

You can enjoy playing back images with the subject's faces zoomed up simply by pressing the button (Face close-up playback) if Face Recognition operated when the images were taken.

- 1 Enter the mode and use the four-way controller () to choose the image you want to magnify.



- 2 Confirm that the icon is displayed in the image and press the button.

The image is magnified around the face first recognized when the image was taken.



If multiple faces were recognized when the image was taken, the subject's faces are zoomed up on each time the button is pressed in order of the recognition during shooting.

- 3 Press the **OK** button.

The image returns to single-image display.



Favorite images and movies cannot be played back in Face close-up.



- The magnification ratio for Face close-up playback may differ depending on the conditions such as the size of the face recognized when shooting.
- Press on the Zoom// button during Face close-up playback to switch to the zoom playback; the image is displayed at an equal or slightly larger magnification ratio. Press on the Zoom// button to switch to the zoom playback; the image is displayed at an equal or slightly smaller magnification ratio.

Saving Images As Favorite

You can copy your favorite images onto the FAVORITE folder, which you can easily playback. Images saved as favorite have displayed on the top left of the screen.

1 Enter the mode and press the four-way controller ().

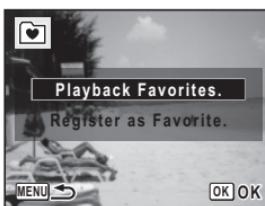
The Playback Mode Palette appears.

2 Use the four-way controller (, , ,) to select (Favorite).



3 Press the OK button.

The screen to select either to save or playback images appears.



4 Use the four-way controller (,) to select [Register as Favorite], and press the OK button.

The screen to select the image to save as favorite appears.

5 Use the four-way controller (,) to select an image, and use the four-way controller () to mark a check on Favorite .

Press the MENU button to stop saving the image as favorite.

To unmark the check (cancel the selection), press the four-way controller () .



6 Press the OK button.

The images are saved as favorite, and the menu ends.



- Images taken with **2.1M**, panoramic images, movies and images taken with another camera cannot be saved as favorite.
- Images saved as favorite are stored within the FAVORITE folder in the built-in memory. When an error occurs and the built-in memory is formatted, the FAVORITE folder will be deleted as well.
- The files will be renamed automatically when the file name reaches FVRP9999.JPG, but will take awhile. Do not turn the camera off or remove the batteries while the renaming is in process. The image files will be damaged and become unable to view.



- Favorite images are saved with the recorded pixels of **[640]** (640×480).
- Saving large numbers of images at once may slow down processing times. (Maximum number of image files you can save at once is 100)
- Up to a maximum of 9999 image files can be saved as favorite. When the file name of the favorite image becomes FVRP9999.JPG, the file name of images already saved at that point will be renamed to 0001 and on. The order of the image will not change.

Playing Back Favorite Images

Plays back images in the FAVORITE folder.

1 Press the four-way controller (▼).

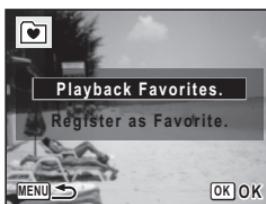
The Playback Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select (Favorite).



3 Press the OK button.

The screen to select either to save or playback images appears.



4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Playback Favorites], and press the OK button.

The first image saved as favorite appears.

Press the **OK** button to start slideshow.

Press the **MENU** button to end playback of favorite images.



Playing back favorite images in slideshow

Press the **OK** button while playing back favorite images to start slideshow of favorite images. The slideshow ends when all the favorite images are played back.

The following are the available button operations during the playback of the slideshow.

OK button: pauses slideshow

shutter release button: switches to **REC** mode

power switch: ends slideshow and turns the camera off

any other buttons: ends slideshow and the display returns to single-image display of the favorite image

4



- Press **Q** on the Zoom/**■**/**Q** button during single-image display to change to four-image display. Press **Q** again to change to nine-image display.
- Press **■** during nine-image display to return to four-image display, and press **■** again to return to single-image display.
- Following are not available for images saved as favorite.
 - PictBridge function
 - functions on the Playback Mode Palette
 - playback during normal **REC** mode
- Do not work with images saved as favorite or the FAVORITE folder on your computer. The image may become unable to view.

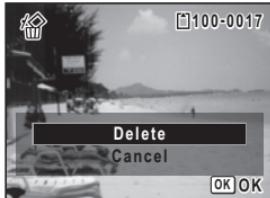


Deleting Favorite Images

Deletes images in the FAVORITE folder.

Deleting a Single Favorite Image

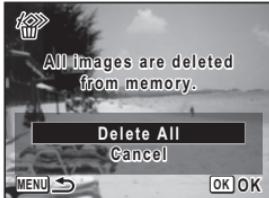
- 1 Enter the playback screen of favorite images.**
("Playing Back Favorite Images" p.119)
- 2 Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to choose the favorite image you want to delete, and press the \textbar button.**
The screen for selecting [Delete] or [Cancel] appears.
- 3 Use the four-way controller ($\blacktriangleup \blacktriangledown$) to select [Delete].**
- 4 Press the OK button.**
The selected favorite image is deleted, and the display either returns to single-image display of favorite image or the message "No Image." appears.



Deleting All Favorite Images

- 1 Enter the playback screen of favorite images.**
("Playing Back Favorite Images" p.119)
- 2 Press the \textbar button twice.**
The screen for selecting [Delete All Images] or [Cancel] appears.

- 3** Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Delete All].



- 4** Press the OK button.

All favorite images are deleted, and the message "No Image." appears.

Deleting Selected Favorite Images

- 1** Enter the playback screen of favorite images.
("Playing Back Favorite Images" p.119)

- 2** Press \blacksquare on the Zoom/ \blacksquare/\square button.

Four thumbnail images appear. Press \blacksquare again to display nine thumbnail images.

- 3** Press the \blacksquare button.

\square appears on the images.

- 4** Use the four-way controller ($\blacktriangle \blacktriangledown \blackleftarrow \blackrightarrow$) to choose the images that you want to delete and press the OK button.

\checkmark appears on the selected images.

If you select an image and press \square on the Zoom/ \blacksquare/\square button, the selected image

appears in single-image display as long as the button is pressed, enabling you to check whether you really want to delete it or not. (The display returns to the four-image or nine-image display when you release the button.)



- 5** Press the \blacksquare button.

The screen for selecting [Select & Delete] or [Cancel] appears.

6 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Select & Delete].



7 Press the OK button.

The favorite images selected are deleted, and the display either returns to four-image/nine-image display of favorite image or the message "No Image." appears.



Favorite images are not compatible with Image Recovery. Save the original image as a favorite again if you accidentally delete a favorite image.



If you press the **OK** button while "No Image." is displayed, the display returns to Playback Mode Palette.

Deleting Images

Delete images with mistakes or that are unnecessary.

When images are inadvertently deleted

Deleted images can be recovered with the Optio E70 (p.126).

Deleted images can be recovered even if the camera has been turned off after deletion as long as the SD Memory Card has not been removed. However, deleted images cannot be recovered after operations to write data such as taking pictures, recording movies, protecting images, saving DPOF settings, resizing images, cropping images or formatting have been performed.

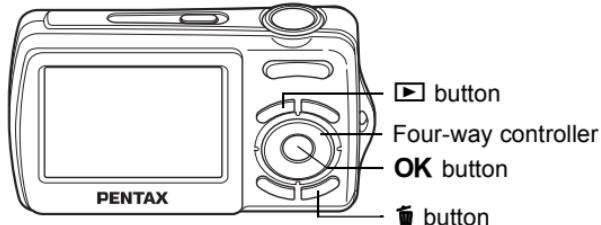
4

Deleting a Single Image

You can delete a single image.



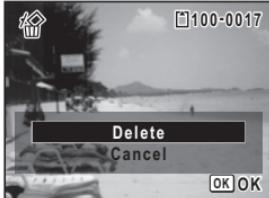
Protected images cannot be deleted (p.127).



- 1 Enter the mode and use the four-way controller () to choose the image you want to delete.**
- 2 Press the button.**

A confirmation screen appears.

- 3 Use the four-way controller (\blacktriangle \blacktriangledown) to select [Delete].**



- 4 Press the OK button.**

The image is deleted.

Recovering Deleted Images \Rightarrow p.126

Deleting Selected Images

You can delete several images selected from the four-image or nine-image display at once.



Protected images cannot be deleted.



- 1 In \square mode, press \blacksquare on the Zoom/ \blacksquare / \square button.**
Four thumbnail images appear. Press \blacksquare again to display nine thumbnail images.

2 Press the  button.

 appears on the images.

**3 Use the four-way controller**

(   ) to choose the images that you want to delete and press the OK button.

 appears on the selected images.

If you select an image and press  on the Zoom// button, the selected image appears in single-image display as long as the button is pressed, enabling you to check whether you really want to delete it or not. (The display returns to the four-image or nine-image display when you release the button.) However, protected images cannot be displayed in single-image display.

**4 Press the  button.**

A confirmation dialog appears.

5 Use the four-way controller ( ) to select [Select & Delete].**6 Press the OK button.**

The selected images are deleted.

Recovering Deleted Images

You can recover images that were taken with this camera and then deleted.



After deleting an image, once operations to write data such as taking pictures, recording movies, protecting images, saving DPOF settings, resizing images, cropping images or formatting have been performed, or the SD Memory Card has been removed, the message [No image to be processed] appears in Step 3 and the deleted images cannot be recovered.

1 After deleting a file, press the four-way controller (▼).

The Playback Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select (Image Recovery).



3 Press the OK button.

The number of recoverable images appears.

4 Use the four-way controller (▲▼) to select [Recover].



5 Press the OK button.

Deletion of the images is cancelled and the files are recovered.



- Recovered images have the same file name as before they were deleted.
- Up to a maximum of 999 deleted image files can be recovered.

Protecting Images from Deletion (Protect)

You can protect stored images from being accidentally deleted.

1 Press the four-way controller (▼) in mode.

The Playback Mode Palette appears.

- 2 Use the four-way controller ($\blacktriangle \blacktriangledown \blackleftarrow \blackrightarrow$) to select (Protect).**



- 3 Press the OK button.**

The screen for selecting [Single Image] or [All Images] appears.

- 4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Single Image].**



- 5 Press the OK button.**

The message [Protect this image] appears. To protect another image, use the four-way controller ($\blackleftarrow \blackrightarrow$) to select another image.

- 6 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Protect].**



- 7 Press the OK button.**

The selected image is protected.



- To cancel the Protect setting, select [Unprotect] in Step 6.
- appears below the file number on protected images during playback.
- The maximum number of images you can protect in succession with [Single Image] cannot exceed 99.

To Protect All Images

- 1 Press the four-way controller (▼) in □ mode.**

The Playback Mode Palette appears.

- 2 Use the four-way controller (▲▼◀▶) to select (Protect).**

- 3 Press the OK button.**

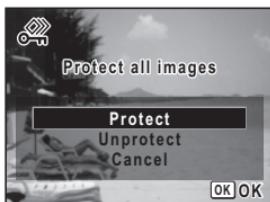
The screen for selecting [Single Image] or [All Images] appears.

- 4 Use the four-way controller (▲▼) to select [All Images].**



- 5 Press the OK button.**

- 6 Use the four-way controller (▲▼) to select [Protect].**



- 7 Press the OK button.**

All the images are protected.



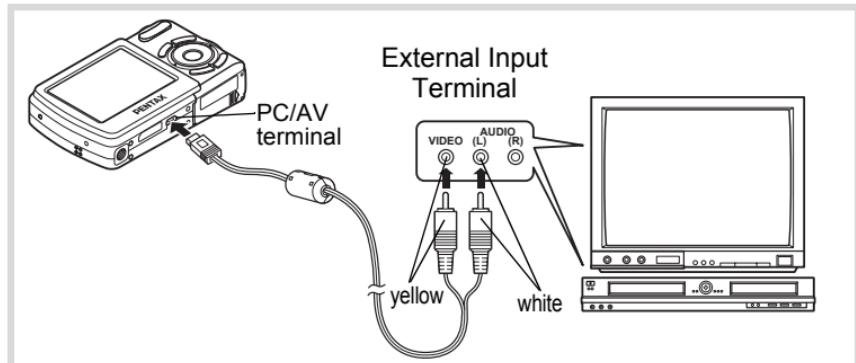
Protected images will be deleted when the SD Memory Card is formatted (p. 156).



To cancel the Protect setting on all your images, select [Unprotect] in Step 6.

Connecting the Camera to AV Equipment

By using the supplied AV cable (I-AVC7), you can capture and play back images on equipment with a video IN jack, such as a TV. Make sure the camera and TV are turned off before connecting the camera to the TV.



4

1 Connect the AV cable to the PC/AV terminal.

Connect the terminal of the AV cable with \blacktriangleleft pointing toward the \blacktriangleleft on the PC/AV terminal of the camera.

2 Connect the other ends of the AV cable (yellow: video, white: audio) to the video input terminal and audio input terminal of the AV device.

When using stereo sound equipment, insert the sound terminal into the L (white) terminal.

3 Turn the AV device on.

When the device that the camera is connected to and the device that plays back images are different, turn both devices on.

When viewing images on AV equipment with multiple video input terminals (such as a TV), refer to the operation manual of the device and select the video input terminal to which the camera is connected.

4**Turn the camera on.**

- It is recommended to use the optional AC adapter kit K-AC62 if you intend to use the camera for a long time.
- Depending on the country or region, images and movie files may fail to be played back if the video output format is set different from the one in use there. If this happens, change the video output format setting (p.166).
- The camera display turns off while the camera is connected to AV equipment.
- Volume cannot be adjusted with the Zoom/▲▼/◀▶ button while the camera is connected to AV equipment.

Memo

5 Editing and Printing Images

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Changing the Image Size (Resize)

By changing the size of a selected image, you can make the file size smaller than the original. You can use this function to continue taking pictures when the SD Memory Card or the built-in memory is full, by making the images smaller and overwriting the original images to make more space available.



- Images taken with **2.1M**, panoramic images and movies cannot be resized.
- You cannot select a larger resolution or higher quality than that of the original image.

5

1 Enter the mode and use the four-way controller () to choose the image you want to resize.

2 Press the four-way controller ().

The Playback Mode Palette appears.

3 Use the four-way controller () to select (Resize).



4 Press the OK button.

The screen for choosing the size appears.

5 Select [Recorded Pixels].

Use the four-way controller ($\blacktriangle\blacktriangleright$) to choose the size.



6 Press the OK button.

A confirmation dialog for overwriting the image appears.

When an image is protected, the image will be saved as a new image without the following confirmation dialog displayed on the screen.

7 Use the four-way controller ($\blacktriangle\blacktriangledown$) to select [Overwrite] or [Save as].



8 Press the OK button.

The resized image is saved.

Cropping Images

You can delete the unwanted part of a picture and save the cropped image as a separate image.



Images taken with **2.1M**, panoramic images and movies cannot be cropped.

1 Enter the \blacksquare mode and use the four-way controller ($\blacktriangle\blacktriangleright$) to choose the image you want to crop.

2 Press the four-way controller (\blacktriangledown).

The Playback Mode Palette appears.

3 Use the four-way controller ($\blacktriangle \blacktriangledown \blackleftarrow \blackrightarrow$) to select  (Cropping).

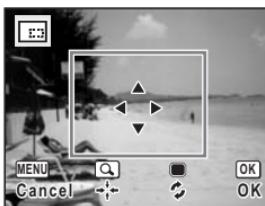


4 Press the OK button.

The cropping screen appears.

The maximum range for cropping is shown with a green frame on the screen. Cropping cannot be performed inside of this area.

5 Choose the cropping conditions.



The following operations move the green frame and set the area for cropping on the screen.

Zoom//Q button

Changes the size of the cropped section

Four-way controller ($\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$) Moves the cropping position up, down, left and right

Green button

Rotates the cropping frame

6 Press the OK button.

The cropped image is saved with a new file name.

The number of recorded pixels is selected automatically according to the size of the cropped section.

Using the Digital Filters

This mode lets you change the color tones and perform special processing on a selected image.

B&W Filter	Processes the image using the B&W filter.
Sepia Filter	Processes the image using the sepia filter.
Color Filter	Processes the image using the selected color filter. You can choose from six filters: red, pink, purple, blue, green, and yellow.
Brightness Filter	Adjusts the brightness of the image.

1 Enter the  mode and use the four-way controller ($\blacktriangle\blacktriangledown\blackleftarrow\blackrightarrow$) to choose the image you want to edit.

2 Press the four-way controller (\blacktriangledown).

The Playback Mode Palette appears.

3 Use the four-way controller ($\blacktriangle\blacktriangledown\blackleftarrow\blackrightarrow$) to select  (Digital Filter).



4 Press the OK button.

The digital filter selection screen appears.

- 1 B&W Filter
- 2 Sepia Filter
- 3 Color Filter
- 4 Brightness Filter



To Select a B&W Filter or Sepia Filter

- 5** Use the four-way controller ($\blacktriangle \blacktriangledown$) to choose a digital filter.

The preview image of the results of the filter effect appears.

- 6** Press the OK button.

A confirmation dialog for overwriting the image appears.

When an image is protected, the image will be saved as a new image without the following confirmation dialog displayed on the screen.

- 7** Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Overwrite] or [Save as].



- 8** Press the OK button.

Images processed with the filter are recorded with the same number of recorded pixels and quality level as the original image.

To Select a Color Filter

- 5** Use the four-way controller ($\blacktriangle \blacktriangledown$) to choose a digital filter.

- 6** Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to adjust the effect.

The color filter changes in the following sequence each time you press the four-way controller (\blacktriangleright): Red, Pink, Purple, Blue, Green, Yellow.



- 7** Press the OK button.

A confirmation dialog for overwriting the image appears.

When an image is protected, the image will be saved as a new image without the following confirmation dialog displayed on the screen.

- 8** Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Overwrite] or [Save as].



- 9** Press the OK button.

Images processed with the filter are recorded with the same number of recorded pixels and quality level as the original image.

To Select a Brightness Filter

- 5** Use the four-way controller ($\blacktriangle \blacktriangledown$) to select the digital filter you want to use.

- 6** Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to adjust the effect.

The brightness increases each time you press the four-way controller (\blacktriangleright) and decreases each time you press the four-way controller (\blacktriangleleft).



- 7** Press the OK button.

A confirmation dialog for overwriting the image appears.

When an image is protected, the image will be saved as a new image without the following confirmation dialog displayed on the screen.

- 8** Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Overwrite] or [Save as].



9

Press the OK button.

Images processed with the filter are recorded with the same number of recorded pixels and quality level as the original image.



Panoramic images, movies or images taken with another camera cannot be edited using Digital Filter function. An error message appears if you choose this function from the Playback Mode Palette and press the **OK** button.

Red-eye Compensation

You can correct images where the flash has caused the subject to appear with red eyes.

1

Enter the mode and use the four-way controller ($\blacktriangleleft\blacktriangleright$) to choose the image you want to correct.

2

Press the four-way controller (\blacktriangledown).

The Playback Mode Palette appears.

3

Use the four-way controller ($\blacktriangleup\blacktriangledown\blacktriangleleft\blacktriangleright$) to select (Red-eye Compensation).



4

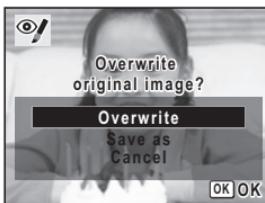
Press the OK button.

A confirmation dialog for overwriting the image appears.

When an image is protected, the image will be saved as a new image without the following confirmation dialog displayed on the screen.

5

Use the four-way controller ($\blacktriangleup\blacktriangledown$) to select [Overwrite] or [Save as].



6

Press the OK button.

The edited image is saved with the same number of recorded pixels and quality level as the original.



- The red-eye compensation function cannot be used on panoramic images, movies or on images where red eyes cannot be detected on the camera. An error message appears in Step 4.
- The red-eye compensation function can only be used with still pictures taken with this camera.

Adding a Frame (Frame Composite)

This function lets you add a decorative frame to still pictures. There are 90 frames already stored in the camera.

1 Enter the mode and use the four-way controller ($\blacktriangle\blacktriangleright$) to choose the image to which you want to add a frame.

2 Press the four-way controller (\blacktriangledown).

The Playback Mode Palette appears.

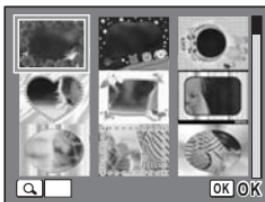
3 Use the four-way controller ($\blacktriangle\blacktriangledown\blacktriangleleft\blacktriangleright$) to select (Frame Composite).



4 Press the OK button.

A 9-frame display of the frame selection screen appears.

5 Use the four-way controller ($\blacktriangle\blacktriangledown\blacktriangleleft\blacktriangleright$) to choose a frame.



6

Press on the Zoom// button.

The selected frame appears in single-image display.



You can choose another frame using either of the following operations.

Four-way controller () Press to choose a different frame.

Zoom// button () Press to return to the 9-frame display of the frame selection screen, and then perform Step 5 to choose a different frame.

7

Press the OK button.

The frame position and size adjustment screen appears.

Use the four-way controller () to adjust the position of the image, and use the Zoom// button to make the image larger or smaller.

**8**

Press the OK button.

A confirmation dialog for overwriting the image appears.

When an image is protected, the image will be saved as a new image without the following confirmation dialog displayed on the screen.

9

Use the four-way controller () to select [Overwrite] or [Save as].

**10**

Press the OK button.

The edited image is saved with the recorded pixels of .



The Frame Composite function cannot be used on images taken with , panoramic images, movies or images of size smaller than . An error message appears in Step 4.

Optional Frames

The optional frames are stored in the built-in memory in the Optio E70. These optional frames are deleted if the camera settings are reset or if the built-in memory files are deleted from a computer. To reload the optional frames into the built-in memory, copy the files from the CD-ROM (S-SW87) supplied with the camera.

To Copy Frames

1 Remove the SD Memory Card from the camera.

If you leave the SD Memory Card in the camera, the frames will be copied onto the card, not into the camera's built-in memory.

2 Connect the camera to the computer using the provided USB cable (I-USB7).

See "Connecting with Computers" in chapter 7 for instructions on connecting the camera to a computer.

3 When the device detection window opens, click [Cancel].

4 Insert the CD-ROM (S-SW87) into the CD-ROM drive.

5 When the installer window opens, click [EXIT].

6 If there is not already a "FRAME" folder in the root directory of the camera (removable disk), create the folder.

7 Copy the desired files from the FRAME folder in the root directory of the CD-ROM to the FRAME folder on the camera (removable disk).

For information on working with files on your computer, refer to the instruction manual supplied with the computer.

8 Disconnect the USB cable from the computer and camera.

See "Connecting with Computers" in chapter 7 for instructions on disconnecting the cable.

- Frames can be stored both in the built-in memory and on SD Memory Cards, but using large numbers of frames may slow down processing times.

To Use a New Frame

Frames downloaded from a PENTAX website or other source can be used for adding a frame to pictures.



- Extract the downloaded frame and copy it to the FRAME folder in the built-in memory or the SD Memory Card.
- The FRAME folder is created when the SD Memory Card is formatted with this camera.
- For more information on downloading, refer to the PENTAX website.

Copying Images

You can copy images from the built-in memory to the SD Memory Card and vice versa. This function can only be selected when an SD Memory Card has been inserted in the camera.

5



Make sure that the camera is turned off before inserting or removing the SD Memory Card.

1 Press the four-way controller (▼) in **■** mode.

The Playback Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select (Image Copy).



3 Press the OK button.

The copying method selection screen appears.

To Copy Files from the Built-in Memory to the SD Memory Card

All the images in the built-in memory are copied to the SD Memory Card at once. Before copying the images, make sure that there is enough space on the SD Memory Card.

- 4 Use the four-way controller ($\Delta \nabla$) to select [$\bullet \rightarrow \text{SD}$].**



- 5 Press the OK button.**

All the images are copied.

To Copy Files from the SD Memory Card to the Built-in Memory

Selected images from the SD Memory Card are copied to the built-in memory one at a time.

- 4 Use the four-way controller ($\Delta \nabla$) to select [$\text{SD} \rightarrow \bullet$].**

- 5 Press the OK button.**

- 6 Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to select the image you want to copy.**



- 7 Press the OK button.**

The selected image is copied.



When a file is copied from the SD Memory Card to the built-in memory, it is assigned a new file name.

Setting the Printing Service (DPOF)

DPOF (Digital Print Order Format) is the format for storing print order data on still pictures captured with a digital camera. Once the print order data has been stored, the pictures can be printed according to the DPOF settings using a DPOF-compatible printer or photo processing lab. You cannot store print order data for movies.



If the picture already has the date and/or time imprinted on it (p.98), do not set [Date] (On) in DPOF settings. If you select (On), the imprinted date and/or time may overlap.

Printing Single Images

Set the following items for each image.

5

Copies	Choose the number of copies up to 99.
Date	Specify whether you want the date inserted on the print or not.

1 In **[] mode**, press the four-way controller (**▼**).

The Playback Mode Palette appears.

2 Use the four-way controller (**▲ ▼ ◀ ▶**) to select **DPOF**.



3 Press the **OK** button.

The screen for selecting [Single Image] or [All Images] appears.

4 Use the four-way controller ($\blacktriangle \nabla$) to select [Single Image].



5 Press the OK button.

The message [DPOF setting for this image] appears.

To make DPOF settings for another image, use the four-way controller ($\blacktriangle \blacktriangleright$) to select another image.

If DPOF settings have already been made for an image, the previous number of copies and date setting (or) will be displayed.

6 Use the four-way controller ($\blacktriangle \nabla$) to choose the number of copies.



7 Use the Green button to choose whether to insert the date or not.

(On) The date will be imprinted.

(Off) The date will not be imprinted.

To continue setting DPOF print order data, use the four-way controller ($\blacktriangle \blacktriangleright$) to choose another image and repeat Steps 6 and 7.



8 Press the OK button.

The setting is saved and the screen returns to the DPOF menu.



Depending on the printer or printing equipment at the photo processing lab, the date may not be imprinted on the pictures even if (On) was selected in the DPOF settings.



To cancel DPOF settings, set the number of copies to [00] in Step 6 and press the **OK** button.

Printing All Images

When you choose the number of copies and whether or not to insert the date, the settings are applied to all the images stored in the camera.

1 Display the screen for DPOF settings in **[mode]**.

Refer to Steps 1 to 3 on p.146.

2 Use the four-way controller (**▲ ▼**) to select [**All Images**].

3 Press the **OK** button.

The message [DPOF setting for all images] appears.

4 Choose the number of copies and whether to insert the date or not.

Refer to Steps 6 and 7 in “Printing Single Images” (p.147) for details of how to make the settings.



5 Press the **OK** button.

The settings for all the images are saved and the camera returns to the DPOF setting screen.



The number of copies specified in the DPOF settings applies to all the images. Before printing, check that the number is correct.



Settings for single images are canceled when settings are made with [**All Images**].

Printing Using PictBridge

By connecting the camera to a printer that supports PictBridge using the USB cable (I-USB7) provided, you can print images directly from the camera without using a computer. Connect the camera to the printer and select the images you want to print and the number of copies on the camera.



- It is recommended to use the optional AC adapter kit K-AC62 when the camera is connected to the printer. The printer may not work properly or the image data may be lost if the battery runs out of power while the camera is connected to the printer.
- Do not disconnect the USB cable during data transfer.
- If the picture already has the date and/or time imprinted on it (p.98), do not set [Date] (On) in PictBridge setting. If you select (On), the imprinted date and/or time may overlap.
- Depending on the model of printer, not all the settings made on the camera (such as print settings and DPOF settings) may be valid.
- A printing error may occur if the selected number of copies exceeds 500.
- Printing the index of the images (printing multiple images on a single sheet) cannot be performed directly from the camera. Make the settings on a printer supporting index printing function or use a computer.

Connecting the Camera to the Printer

- 1 Select [PictBridge] for the [USB Connection] mode on the [Setting] menu.**
Refer to "Changing the USB Connection Mode" (p.165).
- 2 Turn off the camera.**
- 3 Connect the camera to the printer using the USB cable.**
- 4 Turn on the printer.**

5 When the printer is ready to print, turn the camera on.

The printing mode selection screen appears.

Go to the following pages.

- “Printing Single Images” (p.150)
- “Printing All Images” (p.152)
- “Printing Using the DPOF Settings” (p.153)



Printing Single Images

1 In the printing mode selection screen, use the four-way controller ($\blacktriangle \nabla$) to select [Single Image].

5



2 Press the OK button.

The setting screen appears.

3 Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to choose an image to print.

4 Use the four-way controller ($\blacktriangle \nabla$) to choose the number of copies.

You can print up to 99 copies.



5 Use the Green button to choose whether to insert the date or not.

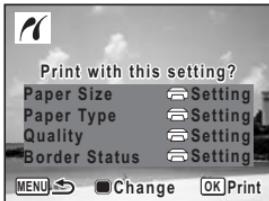
- (On) The date will be imprinted.
 (Off) The date will not be imprinted.

6 Press the OK button.

A confirmation dialog appears.

To print the pictures according to the print settings on the printer, press the **OK** button.

To change the print settings, go to Step 7.

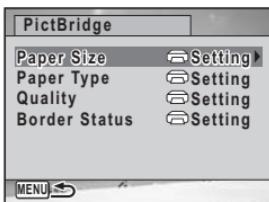


7 Press the Green button.

The screen for changing the print settings appears.

8 Select [Paper Size] and press the four-way controller (►).

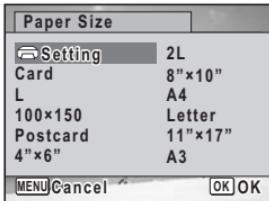
The [Paper Size] screen appears.



9 Use the four-way controller

(▲ ▼ ◀ ▶) to choose the paper size.

You can only choose a size that is supported by your printer.



10 Press the OK button.

The [Paper Size] setting is saved, and the screen returns to the print settings screen.

11 Use the four-way controller (▲ ▼) to select [Paper Type] and press the four-way controller (►).

A pull-down menu appears.

12 Use the four-way controller ($\blacktriangle \nabla$) to select the paper type and press the OK button.

The [Paper Type] setting is saved, and the screen returns to the print settings screen. Set [Quality] and [Border Status] in the same way as in Steps 11 and 12.

If you select [Setting] for each print setting, images are printed according to the settings made on the printer.

Paper Type with more ★ supports higher quality paper.

Quality with more ★ indicates higher print quality.

A confirmation dialog appears after each item has been set.

13 Press the MENU button.

The screen returns to the confirmation dialog.

14 Press the OK button.

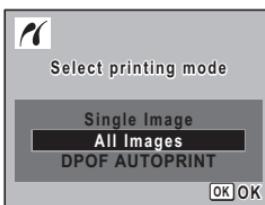
The image is printed according to the settings.

Press the **MENU** button to cancel printing.

- The self-timer lamp lights while the camera is communicating with the printer, and blinks while the card is being accessed and during printing. Do not disconnect the USB cable while the self-timer lamp is blinking.
- The [Paper Size], [Paper Type], [Quality] and [Border Status] settings are reset to the defaults when the camera is turned off.

Printing All Images

1 In the printing mode selection screen, use the four-way controller ($\blacktriangle \nabla$) to select [All Images].



2 Press the OK button.

The setting screen appears.

3 Choose the number of copies and whether to insert the date or not.

The number of copies and date setting that you choose apply to all the images.

Refer to Steps 4 and 5 in “Printing Single Images” (p.150) for details of how to make the settings.



4 Press the OK button.

A confirmation dialog appears.

Refer to Steps 7 to 11 of “Printing Single Images” (p.151) for details of changing print settings.

5 Press the OK button on the print settings confirmation screen.

All the images are printed according to the settings.

Press the **MENU** button to cancel printing.

Printing Using the DPOF Settings

1 In the printing mode selection screen, use the four-way controller (▲▼) to select [DPOF AUTOPRINT].

2 Press the OK button.

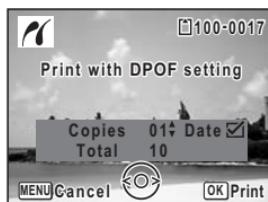
The DPOF settings you have made appear.

Use the four-way controller (◀▶) to check the number of copies for each picture, whether to insert the date or not, and the total number of copies. Refer to p.146 for instructions on how to make the DPOF settings.

3 Press the OK button.

A confirmation dialog appears.

Refer to Steps 7 to 11 of “Printing Single Images” (p.151) for details of changing print settings.



4 Press the OK button.

The images are printed according to the settings.
Press the **MENU** button to cancel printing.

Disconnecting the Cable from the Printer

Disconnect the USB cable from the camera and printer when you have finished printing.

1 Turn off the camera and printer.

2 Disconnect the USB cable from the camera and printer.

5

6 Settings

Camera Settings **156**

Formatting an SD Memory Card

Formatting will delete all the data on the SD Memory Card.

Be sure to use this camera to format (initialize) an SD Memory Card that is unused or has been used on other cameras or digital devices.



- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- Formatting will delete protected images and any data recorded on the card with a computer or camera other than this camera.
- SD Memory Cards formatted on a computer or device other than the camera cannot be used. Be sure to format the card with the camera.
- The built-in memory cannot be formatted except when an error occurs.

1 Press the **MENU** button in **► mode**.

[Setting] menu appears.

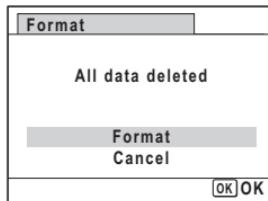
When you press the **MENU** button in **► mode**, press the four-way controller (**►**) once.

2 Use the four-way controller (**▲ ▼**) to select [**Format**].

3 Press the four-way controller (**►**).

The [**Format**] screen appears.

4 Use the four-way controller (**▲ ▼**) to select [**Format**].



5 Press the OK button.

Format starts.

When formatting is completed, the camera returns to **REC** mode or **PLAY** mode.

Changing the Sound Settings

You can adjust the volume of operation sounds and change the type of sound.

1 Press the MENU button in **PLAY** mode.

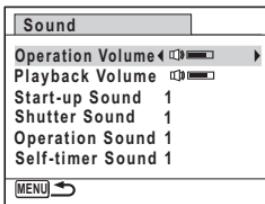
[Setting] menu appears.

When you press the **MENU** button in **REC** mode, press the four-way controller (**►**) once.

2 Use the four-way controller (**▲ ▼**) to select [Sound].

3 Press the four-way controller (**►**).

The [Sound] screen appears.



To Change the Operation Volume/Playback Volume

4 Use the four-way controller (**▲ ▼**) to select [Operation Volume].

5 Use the four-way controller (**◀ ▶**) to adjust the volume.

Set the volume to 0 to mute the start-up sound, shutter sound, operation sound, and self-timer sound.

6 Change [Playback Volume] in the same way as in Steps 4 and 5.

To Change the Sound Type

- 4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Start-up Sound].
- 5 Press the four-way controller (\blacktriangleright).
A pull-down menu appears.
- 6 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select the sound type.
Choose from [1], [2], [3] or [Off].
- 7 Press the **OK** button.
- 8 Set [Shutter Sound], [Operation Sound] and [Self-timer Sound] in the same way as in Steps 4 to 7.
- 9 Press the **MENU** button.
The screen returns to the [Setting] menu.

Changing the Date and Time

You can change the initial date and time settings. You can also set the style in which the date appears on the camera.

- 1 Press the **MENU** button in mode.
[Setting] menu appears.
When you press the **MENU** button in mode, press the four-way controller (\blacktriangleright) once.
- 2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Date Adjust].
- 3 Press the four-way controller (\blacktriangleright).
The [Date Adjust] screen appears.

4 Press the four-way controller (►).

The frame moves to [mm/dd/yy].

Depending on the initial setting or previous setting, [dd/mm/yy] or [yy/mm/dd] may be displayed.

Date Adjust	
Date Style	mm/dd/yy 24h
Date	01/01/2009
Time	0:00
MENU	Cancel
OK OK	

5 Use the four-way controller (▲ ▼) to choose the date and time display style.

Choose from [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].

Date Adjust	
Date Style	mm/dd/yy 24h
Date	01/01/2009
Time	0:00
MENU	Cancel
OK OK	

6 Press the four-way controller (►).

The frame moves to [24h].

7 Use the four-way controller (▲ ▼) to select [24h] (24-hour display) or [12h] (12-hour display).

Date Adjust	
Date Style	mm/dd/yy 24h
Date	01/01/2009
Time	0:00
MENU	Cancel
OK OK	

8 Press the four-way controller (►).

The frame returns to [Date Style].

9 Press the four-way controller (▼).

The frame moves to [Date].

10 Press the four-way controller (►).

The frame moves to one of the following items depending on the date style set in Step 5.

For [mm/dd/yy] month (Example: [01])

For [dd/mm/yy] day (Example: [01])

For [yy/mm/dd] year (Example: [2009])

Date Adjust	
Date Style	mm/dd/yy 24h
Date	01/01/2009
Time	0:00
MENU	Cancel
OK	

The following operations and screens use [mm/dd/yy] as an example. The operations are the same even if another date style has been selected.

11 Use the four-way controller (▲▼) to change the month.

Date Adjust	
Date Style	mm/dd/yy 24h
Date	01/01/2009
Time	0:00
MENU	Cancel
OK	

12 Press the four-way controller (►).

The frame moves to the day field. Use the four-way controller (▲▼) to change the day. After changing the day, change the year in the same manner.

13 Change the time in the same way as in Steps 8 to 11.

If you selected [12h] in Step 7, the setting switches between am and pm corresponding to the time.

14 Press the OK button.**15 Press the OK button.**

The date and time settings are saved.



When you press the **OK** button in Step 15, the camera clock is reset to 00 seconds. To set the exact time, press the **OK** button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

Setting the World Time

The date and time selected in “Setting the Date and Time” (p.42) and “Changing the Date and Time” (p.158) serve as the  (Hometown) date and time. By using the world time function, you can display the time in a city other than the Hometown ( Destination). This is useful when taking pictures in a different time zone.

To Set the Destination

1 Press the MENU button in mode.

[ Setting] menu appears.

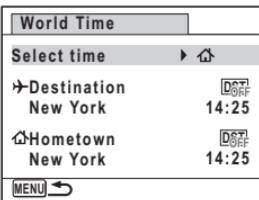
When you press the **MENU** button in  mode, press the four-way controller () once.

2 Use the four-way controller () to select [World Time].

3 Press the four-way controller () .

The [World Time] screen appears.

4 Use the four-way controller () to select (Destination).

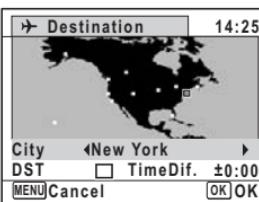


5 Press the four-way controller () .

The [Destination] screen appears. The city that is currently selected blinks on the map.

6 Use the four-way controller () to change the Destination city.

The current time, location and time difference of the selected city appear.



- 7** Use the four-way controller (**▲ ▼**) to select [DST].
- 8** Use the four-way controller (**◀ ▶**) to select (On) or (Off).
Select (On) if the Destination city uses daylight saving time.
- 9** Press the **OK** button.
The [World Time] setting is saved.
- 10** Press the **MENU** button twice.
The camera returns to capture status with the current setting.

Select  (Hometown) in Step 4 of p.161 to set the city and DST setting for the Hometown city.

To Display the Time of the Destination on the Display (Select Time)

- 1** Press the **MENU** button in **[] mode**.
[ Setting] menu appears.
When you press the **MENU** button in **[] mode**, press the four-way controller (**▶**) once.

- 2** Use the four-way controller (**▲ ▼**) to select [World Time].

- 3** Press the four-way controller (**▶**).
The [World Time] screen appears.

- 4** Use the four-way controller (**▲ ▼**) to select [Select Time].

World Time	
Select time	 
→Destination	
London	20:25
↳Hometown	
New York	14:25
[MENU]	

- 5** Press the four-way controller (**▶**).
A pull-down menu appears.

6 Use the four-way controller (\blacktriangle \blacktriangledown) to select \rightarrow (Destination) or \square (Hometown).

- \rightarrow Displays the time of the Destination city
- \square Displays the time of the Hometown city



7 Press the OK button.

The setting is saved.

8 Press the MENU button twice.

The camera returns to REC mode or PLAY mode.

When \rightarrow (Destination) is selected in Step 6, the \rightarrow icon appears on the display to indicate that the destination date and time are displayed in REC mode.



Changing the Display Language

You can change the language in which the menus, error messages, etc. are displayed.

The camera supports the following 20 languages: English, French, German, Spanish, Portuguese, Italian, Dutch, Japanese, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Thai, Korean and Chinese (traditional and simplified).

1 Press the MENU button in PLAY mode.

[Setting] menu appears.

When you press the **MENU** button in PLAY mode, press the four-way controller (\blacktriangleright) once.

2 Use the four-way controller (\blacktriangle \blacktriangledown) to select [Language/言語].

3 Press the four-way controller (►).

The [Language/言語] screen appears.

4 Use the four-way controller (▲▼◀▶) to select the language.

Language/言語		
English	日本語	Türkçe
Français	Dansk	Ελληνικά
Deutsch	Svenska	Русский
Español	Suomi	ไทย
Português	Polski	한국어
Italiano	Čeština	中文繁體
Nederlands	Magyar	中文简体
[MENU]Cancel		[OK]OK

5 Press the OK button.

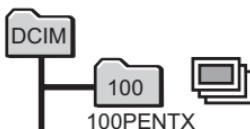
The menus and messages are displayed in the selected language.

Changing the Naming Rule of the Folder

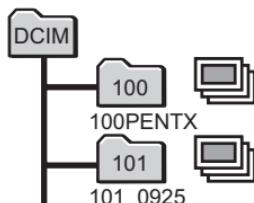
You can change the naming rule of the folder for storing images. When the name is changed to the date, pictures are saved in separate folders by the date they were taken.

Date	xxx_mmdd (3-digit folder number_month day) * xxx_ddmm (3-digit folder number_day month) when the date style is set to [dd/mm/yy]
Standard	xxxPENTX (where xxx is the 3-digit folder number)

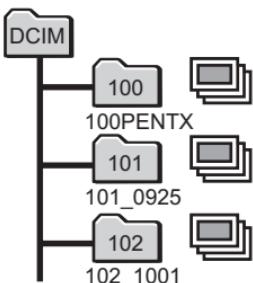
Taken with the folder name setting [Standard].
(e.g. September 25)



Taken with the folder name setting [Date].
(e.g. September 25)



Next time, taken with the folder name setting [Date] again.
(e.g. October 1)



- Up to 999 folders can be created.
- Up to 9999 images can be saved in a folder.

- 1 Press the MENU button in  mode.**
[ Setting] menu appears.
When you press the MENU button in  mode, press the four-way controller (\blacktriangleright) once.
- 2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Folder Name].**
- 3 Press the four-way controller (\blacktriangleright).**
A pull-down menu appears.
- 4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Standard] or [Date].**
- 5 Press the OK button.**
The setting is saved.

Changing the USB Connection Mode

Set the device to which the camera is connected with the USB cable.



Make sure to set the USB Connection mode before connecting your camera to the computer or printer. You cannot perform the following setting if your camera is connected to the computer or printer with the USB/AV cable.



See “Connecting with Computers” in chapter 7 for instructions on connecting the camera to a computer.

- 1 Press the MENU button in  mode.**
[ Setting] menu appears.
When you press the MENU button in  mode, press the four-way controller (\blacktriangleright) once.
- 2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [USB Connection].**
- 3 Press the four-way controller (\blacktriangleright).**
A pull-down menu appears.

4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [PC] or [PictBridge].

- PC : For transferring image data to a computer
- PictBridge : For connecting the camera to a PictBridge-compatible printer



5 Press the OK button.

The setting is saved.



Do not connect the camera to your computer while [PictBridge] is selected for the USB Connection mode. And do not connect the camera to your printer while [PC] is selected.

Printing Using PictBridge See p.149

Changing the Video Output Format

When you connect the camera to AV equipment, choose the appropriate video output format (NTSC or PAL) for taking and playing back images.

1 Press the MENU button in \square mode.

[\square Setting] menu appears.

When you press the MENU button in \square mode, press the four-way controller (\blacktriangleright) once.

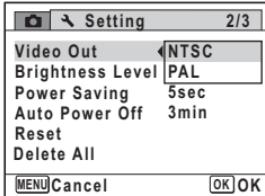
2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Video Out].

3 Press the four-way controller (\blacktriangleright).

A pull-down menu appears.

4 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select video output format.

Choose the video output format to match the output format of the AV equipment.



5 Press the OK button.

The setting is saved.



Depending on the country or region, images may fail to be played back if the video output format is set different from the one in use there. If this happens, change the video output format setting.

Connecting the Camera to AV Equipment \Rightarrow p.130

Video output format of each city \Rightarrow p.208

Adjusting the Brightness of the Display

You can adjust the brightness of the display.

1 Press the MENU button in \blacksquare mode.

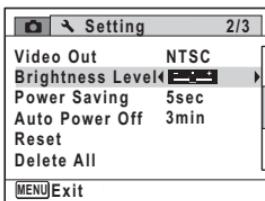
[∇ Setting] menu appears.

When you press the **MENU** button in \blacksquare mode, press the four-way controller (\blacktriangleright) once.

2 Use the four-way controller ($\blacktriangle \blacktriangledown$) to select [Brightness Level].

3 Use the four-way controller ($\blacktriangleleft \blacktriangleright$) to adjust the brightness.

- Dark
- Normal
- Bright



4 Press the MENU button.

The camera returns to **[mode or mode].**
The display appears with the set brightness.

Using the Power Saving Function

You can save battery power by setting the display to dim automatically when no operation is performed for a fixed time. After the power saving function has been activated, the display returns to the ordinary brightness by pressing any of the buttons.

1 Press the MENU button in mode.

[Setting] menu appears.

When you press the **MENU** button in **[mode]**, press the four-way controller (**▶**) once.

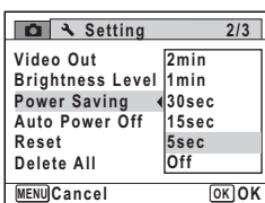
2 Use the four-way controller (▲ ▼**) to select [Power Saving].**

3 Press the four-way controller (▶**).**

A pull-down menu appears.

4 Use the four-way controller (▲ ▼**) to select the time until the camera enters power saving mode.**

Choose from [2min], [1min], [30sec], [15sec], [5sec] or [Off].



5 Press the OK button.

The setting is saved.



- Power Saving does not function in the following situations:
 - while taking pictures in Continuous Shooting mode
 - in the playback mode
 - while recording a movie
 - while the camera is connected to a computer or printer
 - when using the AC adapter
 - while a menu is being displayed
- When no operation is performed after the camera is turned on, Power Saving is activated only after 15 seconds elapse even if [5sec] is set.

Setting Auto Power Off

You can set the camera to turn off automatically when no operation is performed for a fixed time.

1 Press the MENU button in **REC** mode.

[Setting] menu appears.

When you press the **MENU** button in **REC** mode, press the four-way controller (**>**) once.

2 Use the four-way controller (**▲ ▼**) to select [**Auto Power Off**].

3 Press the four-way controller (**>**).

A pull-down menu appears.

4 Use the four-way controller (**▲ ▼**) to select the time until the camera turns off automatically.

Choose from [5min], [3min] or [Off].

Setting		2/3
Video Out	NTSC	
Brightness Level		
Power Saving	5sec	
Auto Power Off	5min	
Reset	3min	
Delete All	Off	
MENU	Cancel	OK

5 Press the OK button.

The setting is saved.



Auto Power Off does not function in the following situations:

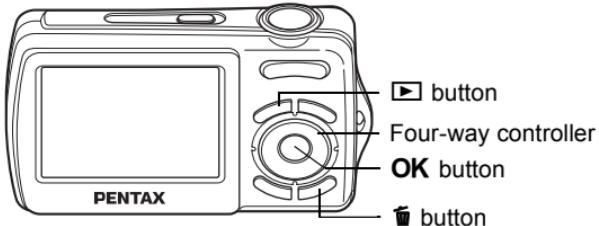
- while taking pictures in Continuous Shooting mode
- while recording a movie
- during a slideshow or movie playback
- while the camera is connected to a computer or printer

Deleting All Images

You can delete all the images at once.



Protected images cannot be deleted (p.127).



6

Settings

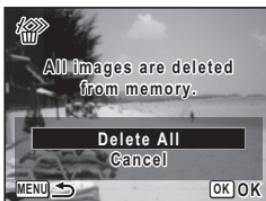
1 Press the button in mode.

A confirmation dialog appears.

2 Press the button.

A confirmation dialog appears.

3 Use the four-way controller () to select [Delete All].



4 Press the OK button.

All the images are deleted.

Resetting to Default Settings (Reset)

You can reset the camera settings to their defaults. Refer to "Default Settings" (p.203) for the reset settings.

1 Press the MENU button in **REC** mode.

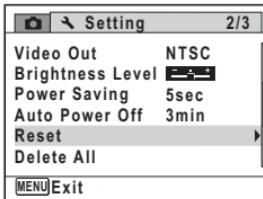
[Setting] menu appears.

When you press the **MENU** button in **REC** mode, press the four-way controller (**▶**) once.

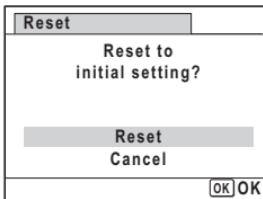
2 Use the four-way controller (**▲ ▼**) to select [Reset].

3 Press the four-way controller (**▶**).

The [Reset] screen appears.



4 Use the four-way controller (**▲ ▼**) to select [Reset].



5 Press the OK button.

The settings return to the defaults.



The following settings are not affected by resetting:

- Date Adjust
- World Time
- Language/言語
- Video Out

Memo

7 Connecting with Computers

Preparations	174
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Preparations

You can transfer images and movies captured with your digital camera and then display and manage them by installing the software included on the provided CD-ROM to your computer and connecting your digital camera to your computer with the USB cable. This section explains how to install the provided software “ACDSee for PENTAX 3.0” and “ACDSee 2 for Mac”, and the other necessary preparations for enjoying your digital camera pictures and movies on your computer.

Supplied Software

The following software is included in the CD-ROM (S-SW87) provided.

Windows

- ACDSee for PENTAX 3.0 (Image viewing/managing/editing software)

Macintosh

- ACDSee 2 for Mac (Image viewing/managing software)



7 You are recommended to use an AC adapter connected to a power outlet when connecting the camera to a computer. If the battery runs out of power while images are being transmitted to the computer, the image data may be lost or damaged. When using an AC adapter, make sure that the AC plug cord is properly connected to the camera.

System Requirements

The following system requirements must be met for you to fully enjoy the images and movies captured with a digital camera on your computer.

Windows System Requirements



USB connection and the included application software do not support Windows 95, Windows 98, Windows 98SE, Windows Me and Windows NT.

● USB connection

- OS: Windows 2000, Windows XP, Windows Vista (The OS must be preinstalled and updated to the latest version.)
- USB port must be standard equipment

● Application Software

<ACDSee for PENTAX 3.0>

(nine languages: English, French, German, Spanish, Italian, Russian, Chinese [traditional and simplified], Korean, Japanese)

- OS : Windows 2000, Windows XP or Windows Vista
- CPU : Pentium III or higher
- Memory : 256 MB minimum (512 MB or more recommended)
- Hard Disk space : 100 MB minimum (1 GB or more recommended)
- CD-ROM drive
- Internet Explorer 5.0 or later
- * DirectX 9.0 or later and Windows Media Player 9.0 or later are required to play the movies.
- * The OS must be preinstalled and updated to the latest version.
- * Operation is not guaranteed on all computers meeting the system requirements.
- * The system requirements describe the minimum environment for playing and editing movies.

The versions of Internet Explorer, Windows Media Player and DirectX required for use of "ACDSee for PENTAX 3.0" are not included in the provided CD-ROM (S-SW87). Visit the following sites to download necessary items and install/update them on your computer.

- Internet Explorer
<http://www.microsoft.com/windows/products/winfamily/ie/default.mspx>
- Windows Media Player
<http://www.microsoft.com/windows/products/winfamily/mediaplayer/default.mspx>
- DirectX
<http://www.microsoft.com/windows/directx/default.mspx>

Macintosh System Requirements

● USB connection

- OS : Mac OS X (Ver. 10.1.2 - 10.5) (The OS must be preinstalled and updated to the latest version.)
- USB port must be standard equipment

● Application Software

<ACDSee 2 for Mac>

(Six languages: English, French, German, Spanish, Italian, Japanese)

- OS : Mac OS X (ver. 10.3 - 10.5)
- CPU : Power Macintosh 233 MHz or higher
- Memory : 8 MB minimum
- Hard Disk space : 6 MB minimum
- CD-ROM drive, QuickTime 4.0 or later
- * The OS must be preinstalled and updated to the latest version.
- * Operation is not guaranteed on all computers meeting the system requirements.

Installing the Software

Installing on Windows PC

Install the image viewing/managing/editing software (ACDSee for PENTAX 3.0).



- Make sure your Windows PC meets the system requirements before installing the software.
- When multiple accounts have been setup in Windows 2000, Windows XP or Windows Vista, log on with an account that has administrative rights before installing the software.

1 Turn your Windows PC on.

2 Insert the CD-ROM (S-SW87) into the CD-ROM drive.

The language selection screen of “PENTAX Software Installer” appears.

If you are using Windows Vista

When the [AutoPlay] screen appears, display the language selection screen following the steps below.

- 1) Click [Run setup.exe].
- 2) Click [Allow].

The language selection screen appears.

7

If the language selection screen of “PENTAX Software Installer” does not appear

Display the language selection screen following the steps below.

- 1) Double-click [My Computer] on the desktop.
- 2) Double-click the [CD-ROM drive (S-SW87)] icon.
- 3) Double-click the [Setup.exe] icon.

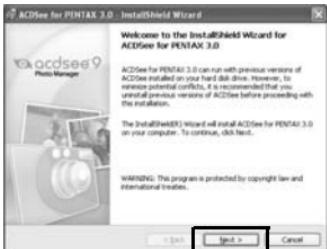
3 Choose a language from the displayed screen.

The “ACDSee for PENTAX 3.0” installation screen appears.



4 Click [Install].

Setup screen appears. Follow the on-screen guidance and enter the registration information.



5 Click [Finish].

“ACDSee for PENTAX 3.0” installation is complete.

Then click [Exit] on the installation screen to close the window, and reboot your Windows PC.



Installing on Macintosh

Install the image viewing/managing software (ACDSee 2 for Mac).

- 1 Turn your Macintosh on.**
- 2 Insert the CD-ROM (S-SW87) in the CD-ROM drive.**
- 3 Double-click the CD-ROM (S-SW87) icon.**
- 4 Double-click the [ACDSee Install] icon.**

The language selection screen of “PENTAX Software Installer” appears.

Double-click the [Master Installer] icon to display the language selection screen.

- 5 Choose a language from the displayed screen.**

The “ACDSee 2 for Mac” installer screen appears.



- 6 Click [Install].**

The setup screen appears. Follow the on-screen guidance to input registration information and install the software.



- 7 When the screen shown on the right appears, click [Yes].**



8

Click [Close].

"ACDSee 2 for Mac" installation is complete.

Then click [Exit] on the installation screen to close the window.



Product Registration on the Internet

In order to better serve you, we request that you complete the product registration. Thank you for your cooperation.

If your computer is connected to the Internet, please click [Product Registration] after the language selection screen on the setup screen in "Installing the Software". A world map for Internet Product Registration is displayed.



7

Click the displayed country or region and then follow the instructions to register your product.



Only customers in countries and regions displayed on the software installation screen can register their products on the Internet Product Registration.

Setting Up Your Digital Camera

Setting the USB Connection Mode to [PC]

Make sure to set the USB Connection mode before connecting your camera to the computer. You cannot perform the following setting if the camera is connected to your computer or a printer with the USB cable.



1 Press the MENU button.

The [CAM Rec. Mode] menu or the [PLAY Playback] menu appears.

2 Press the four-way controller (►) to display the [🔧 Setting] menu.

3 Use the four-way controller (▲ ▼) to select [USB Connection].

4 Press the four-way controller (►).

A pull-down menu appears.



5 Use the four-way controller (▲ ▼) to select [PC].

6 Press the OK button.

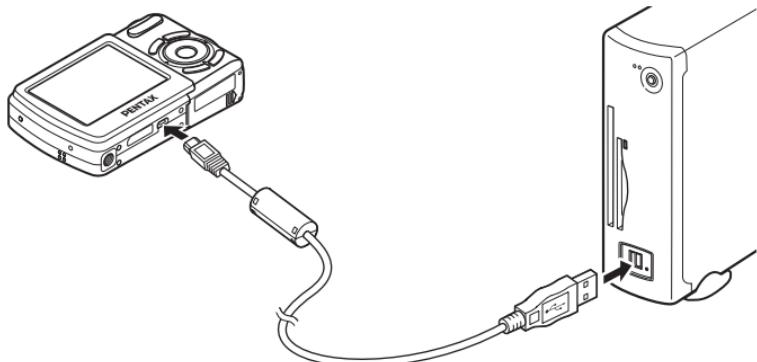
Transferring Images to a Windows PC

Connecting the Camera and PC

1 Turn your PC on.

2 With your camera turned off, connect it to your Windows PC using the supplied USB cable.

Connect the terminal of the AV cable with \square pointing toward the \blacktriangleleft on the PC/AV terminal of the camera.



7

3 Turn your camera on.

The “Device Detector” screen appears automatically.

If the “Device Detector” screen does not appear, display and copy the images following the steps in “When the Device Detector screen does not appear” on p.184.



- The self-timer lamp blinks while the camera is connected to a Windows PC with the USB cable.
- Do not work with images saved as favorite or the FAVORITE folder on your computer. The image may become unable to view.

Transferring Images



If there is no SD Memory Card in the camera, the images stored in the built-in memory will be transmitted to your Windows PC.

- 4 Confirm that [Acquire images from the device with ACDSee] is checked and click [OK].**



- 5 Click [Next].**



- 6 Select an image to copy and click [Next].**



- 7 Specify [File names] and [Destination folder], and click [Next].**

The image is copied to the Windows PC.



7

8

Click [Finish].

The “ACDSee for PENTAX 3.0” browser starts.



When the Device Detector screen does not appear

4

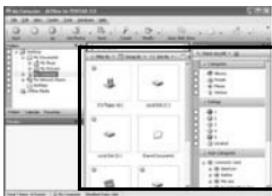
- Double-click the [ACDSee for PENTAX 3.0] icon on the desktop.



ACDSee for
PENTAX 3.0

5

- Click [My Computer].



6

- Double-click [Removable Disk].



7



If the SD Memory Card has a volume label, the volume label name appears instead of [Removable Disk]. A new unformatted SD Memory Card may show the manufacturer name or model number.

7 Double-click the [DCIM] folder.

Images are stored in folders named by the shooting date ("XXX_0202" for February 2. "XXX" is a three-digit number.). If [Standard] is selected for [Folder Name] in the [Setting] menu, a folder named "XXXPENTX" (XXX is a three-digit folder number) is displayed and images are stored here.



8 Select the folders you want to copy to the Windows PC.

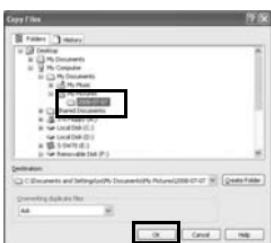


9 Select [Copy To Folder...] from the [Edit] menu.

The "Copy Files" screen appears.



10 Specify the destination folder.



11 Click [OK].

The folders or images are copied to the Windows PC.

Disconnecting the Camera from Your Windows PC

- 1 Double-click the [Safely Remove Hardware] icon in the task bar.

The “Safely Remove Hardware” screen appears.



- 2 Select [USB Mass Storage Device] and click [Stop].

The “Stop a Hardware device” screen appears.



- 3 Select [USB Mass Storage Device] and click [OK].

A message appears indicating that the hardware can be safely removed.



- 4 Click [Close].



- 5 Disconnect the USB cable from your Windows PC and the camera.



- If the camera (removable disk) is being used by an application such as “ACDSee for PENTAX 3.0”, the camera cannot be disconnected until the application is closed.
- The camera will automatically switch to the Playback Only mode when the USB cable is disconnected from your Windows PC or the camera.

Transferring Images to a Macintosh

Connecting the Camera and Macintosh

- 1 Turn your Macintosh on.**
- 2 With your camera turned off, connect it to your Macintosh using the supplied USB cable.**
If there is no SD Memory Card in the camera, the images stored in the built-in memory will be transmitted to your Macintosh.
- 3 Turn your camera on.**

The camera is recognized as [NO_NAME] on the desktop.



Do not work with images saved as favorite or the FAVORITE folder on your Macintosh. The image may become unable to view.



- If the SD Memory Card has a volume label, the volume label name appears instead of [NO_NAME]. A new unformatted SD Memory Card may show the manufacturer name or model number. Volume label name can be changed.
- The self-timer lamp blinks while the camera is connected to a Macintosh with the USB cable.

7

Transferring Images

- 4 Specify a save location, make sure that [Launch ACDSee] is checked, and click [Download].**

After images are copied to your Macintosh, the browser for “ACDSee 2 for Mac” starts.





- When [Delete images from device] is checked, images are deleted from the camera after transfer is complete.
- Even if camera images are not transferred, they can be directly displayed on the Macintosh from a camera connected to the Macintosh.

Disconnecting the Camera from Your Macintosh

1 Drag ([NO_NAME] icon) on the desktop to trash.

If the SD Memory Card has a volume label, drag the icon of that name to the trash.

2 Disconnect the USB cable from your Macintosh and the camera.



- If the camera (removable disk) is being used by an application such as "ACDSee 2 for Mac", the camera cannot be disconnected until the application is closed.
- The camera will automatically switch to the Playback Only mode when the USB cable is disconnected from your Macintosh or the camera.

Using the Supplied Software

“ACDSee for PENTAX 3.0” lets you view, edit, manage, search for, share, and print images.

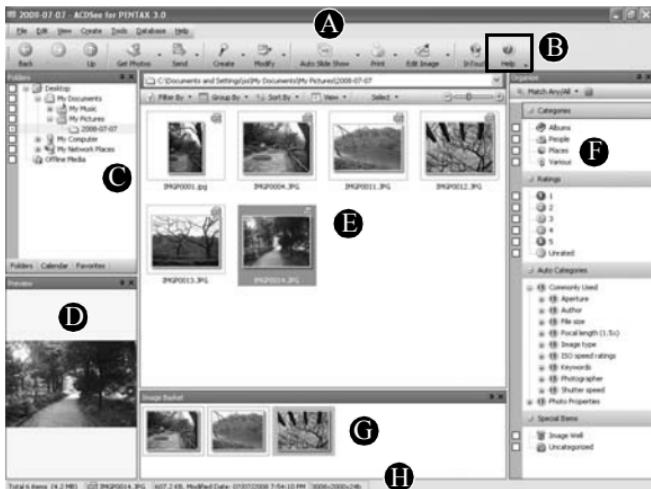
Starting “ACDSee for PENTAX 3.0”

For Windows PC

- Double-click the [ACDSee for PENTAX 3.0] icon on the desktop.

ACDSee starts and the main window, which is called the browser, appears.

ACDSee Browser Interface



*This is a default setting screen.

A Menu bar

You can access the various menu commands.

7

B Toolbar

Provides quick access to shortcuts for frequently used tasks and functions.

C Folders pane

Displays the configuration of folders in your computer. When you browse a folder, the contents of the folder appear in the File List pane.

D Preview pane

Displays a preview of the image or media file currently selected in the File List pane. You can change the size of the preview image or play back the media file.

E File List pane

Displays the contents of the currently selected folder or the results of the most recent search (the file or folder that matches the search item). It is the only pane that always appears in the browser and it cannot be hidden or closed.

F Category pane

Displays a list of categories and priorities. By dragging and dropping files from the File List pane to here, you can set category and priority for files.

G Image Basket pane

Displays files selected in the File List pane. By choosing images and files and putting them in the Image Basket pane, you can use the editing and creating functions on images from different folders and categories.

H Status bar

Displays information and properties for the selected file.

Viewing Images

-
- 1 Select and click the folder containing the image you want to view in the Folders pane of the ACDSee browser.**

Images are displayed in the File List pane.

2 Select and double-click the image you want to view in the File List pane.

The selected image is displayed with the viewer.

With the viewer, you can enlarge/reduce the display size of the image or edit the image. You can also play back movies.

ACDSee Quick View

The image is displayed on the “ACDSee Quick View” screen if you double-click the image file directly from Windows without starting ACDSee. (You cannot play back or display the file with ACDSee even if you double-click a movie.)

You can also enlarge/reduce the display size of the image on the “ACDSee Quick View” screen.

Click [Full Viewer] on the “ACDSee Quick View” screen to switch the display to the viewer.

Click [Photo Manager] to switch the display to the ACDSee browser.



Details on How to Use “ACDSee for PENTAX 3.0”

You can find more information on how to use “ACDSee for PENTAX 3.0” by using the help pages.

1 Click the [?] icon at the top right of the screen.

The help screen appears.



2 Double-click the desired topic.

For Macintosh

“ACDSee 2 for Mac” lets you display and manage images.

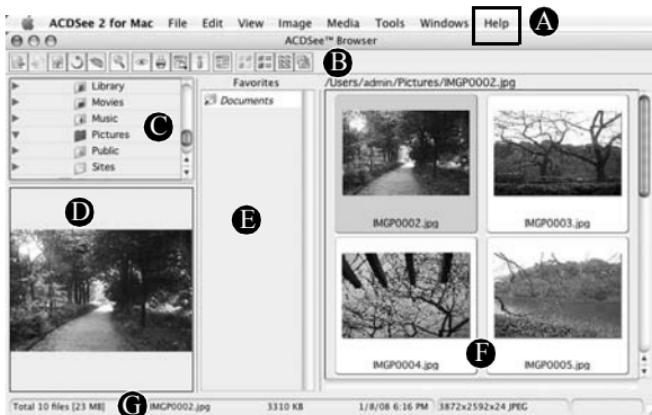
Starting “ACDSee 2 for Mac”

1 Double-click the [ACDSee] folder inside the [Applications] folder.

2 Double-click the [ACDSee 2 for Mac] icon.

ACDSee starts and the main window, which is called the browser, appears.

ACDSee Browser Interface



A Menu bar

You can access the various menu commands.

B Toolbar

Provides quick access to shortcuts for frequently used tasks and functions.

C Folders pane

Displays the configuration of folders in your computer. When you browse a folder, the contents of the folder appear in the File List pane.

D Preview pane

Displays a preview of the image or media file currently selected in the File List pane. You can change the size of the preview image or play back the media file.

E Favorites pane

You can add frequently used items (folders, etc.).

F File List pane

Displays the contents of the currently selected folder or the results of the most recent search (the file or folder that matches the search item). It is the only pane that always appears in the browser and it cannot be hidden or closed.

G Status bar

Displays information and properties for the selected file.

Viewing Images

-
- 1 Select and click the folder containing the image you want to view in the Folders pane of the ACDSee browser.**

Images are displayed in the File List pane.

- 2 Select and double-click the image you want to view in the File List pane.**

The selected image is displayed with the viewer.

With the viewer, you can enlarge/reduce the display size of the image.



Details on How to Use “ACDSee 2 for Mac”

You can find more information on how to use “ACDSee 2 for Mac” by using the help pages.

- 1 Select [ACDSee 2 for Mac] from [Help] on the menu bar.**
The help screen appears.
- 2 Click the desired topic.**

8 Appendix

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Functions Available for Each Shooting Mode

Yes: Can be set. No: Cannot be set.

Function	Shooting Mode								
Pixel Track SR	Yes	No	Yes	Yes	Yes	No	No	No	Yes
Face Priority On	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Smile Capture									
Face Priority Off	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Blink Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Flash Mode	Flash (Auto)	Yes	Yes	Yes	No	Yes	Yes	No	Yes
	Flash Off	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Flash On	Yes	No	Yes	Yes	Yes	Yes	No	Yes
	Flash On + Red-eye	Yes	No	Yes	Yes	Yes	Yes	No	Yes
Drive Mode	Standard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Self-timer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	2 Sec. Self-timer								
	Continuous Shooting	Yes	No	Yes	Yes	Yes	Yes	No	Yes
Focus Mode	AF (Standard)								
	Macro	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Pan Focus								
	Infinity	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Recorded Pixels	Yes	No ^{*1}	Yes	Yes	Yes	No ^{*2}	Yes	Yes	Yes
Focusing Area	No ^{*4}	No ^{*4}	Yes	Yes	Yes	Yes	Yes	Yes ^{*5}	Yes
Sensitivity	Yes	No ^{*6}	Yes	Yes	Yes	Yes	Yes	No ^{*6}	Yes
EV Compensation	No ^{*7}	No ^{*7}	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zoom	Yes	Yes ^{*8}	Yes	Yes	Yes	Yes	Yes	Yes ^{*8}	Yes
Date Imprint	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes

*1 Fixed at

*2 Fixed at

*3 Fixed at

*4 Fixed at (Multiple)

			Shooting Mode	Function	Page
(((Pixel Track SR		p.73
Yes	Yes	Yes	Face Priority On		p.65
			Smile Capture		
Yes	Yes	Yes	Face Priority Off		p.62
Yes	Yes	No	Blink Detection		
Yes	Yes	Yes	(Auto)	Flash Mode	p.89
Yes	Yes	Yes	(Flash Off)		
Yes	Yes	Yes	(Flash On)		
Yes	Yes	Yes	(Flash On + Red-eye)		
Yes	Yes	Yes	(Standard)	Drive Mode	—
Yes	Yes	Yes	(Self-timer)		p.83
			(2 Sec. Self-timer)		
Yes	No	No	(Continuous Shooting)		p.84
Yes	Yes	Yes	(Standard)	Focus Mode	p.91
			(Macro)		
			(Pan Focus)		
Yes	Yes	Yes	(Infinity)		
No ^{*3}	No ^{*2}	No	Recorded Pixels		p.93
Yes	Yes ^{*5}	Yes	Focusing Area		p.92
No ^{*6}	Yes	Yes	Sensitivity		p.96
Yes	Yes	Yes	EV Compensation		p.95
Yes ^{*9}	Yes	Yes	Zoom		p.71
Yes	Yes	Yes	Date Imprint		p.98

*5 (Automatic Tracking AF) is not available

*6 Fixed at Auto

*7 Fixed at ±0.0

*8 Intelligent Zoom is not available

*9 Only Optical Zoom is available

Messages

Messages such as the following may appear on the display during camera operation.

Message	Description
Battery depleted	The batteries are exhausted. Replace with new batteries. If using rechargeable batteries, charge the batteries. (p.27)
Memory card full	The SD Memory Card is full and no more images can be saved. Insert a new SD Memory Card or delete unwanted images (p.32, p.124). Change the recorded pixels of recorded images and try again (p.134).
Memory card error	Shooting and playback are impossible due to a problem with the SD Memory Card. You may be able to display or copy the images on the card using a computer.
Card is not formatted	The SD Memory Card you have inserted is unformatted or has been formatted on a computer or other device and is not compatible with this camera. Format the SD Memory Card in the camera (p.156).
The built-in memory is not formatted	The data within the built-in memory are damaged. Format the built-in memory.
Card locked	The SD Memory Card is write-protected (p.34).
Compression error	This message occurs when the camera fails to compress an image. Change the quality level or recorded pixels of the image and try shooting or saving it again.
No image	There are no images on the SD Memory Card.
Movie recording stopped	This message appears when the internal temperature of the camera has exceeded normal operating limits while recording a movie.
Deleting	This message appears when deleting an image.
Camera cannot play this image	You are trying to play back an image in a format not supported by this camera. You may be able to play it back on another brand of camera or on your computer.
Image folder could not be created	The largest file number (9999) has been assigned to an image in the largest folder number (999) and no more images can be saved. Insert a new SD Memory Card or format the card (p.156).
Protected	The image you are trying to delete is protected.

Message	Description
Data being recorded	This message appears when you try to switch to mode while an image is still being recorded, or when the protect setting or DPOF setting is being changed. It disappears after the image is recorded or the setting is changed.
Data being processed	This message appears when the camera takes more than five seconds to display an image due to image processing, or when the SD Memory Card or the built-in memory is being formatted.
Built-in memory full	Displayed if the built-in memory is full when saving a file.
No image to be processed	Displayed when there are no images.
This image cannot be processed	Displayed for files that cannot be processed.
No card in the camera	Displayed when no SD Memory Card is inserted.
The built-in memory is not enough to copy images	Displayed when there is insufficient built-in memory to perform copying.
Cannot process correctly	Displayed when Red-eye Compensation processing fails.
Display image from built-in memory	Displayed when the camera enters the built-in memory display.
The camera will turn off to prevent damage from overheating	Displayed when the temperature within the camera is too high and the camera turns off automatically. Wait for awhile and then turn the camera on again after the temperature within the camera cools down.

Messages such as the following may appear on the display when using the PictBridge function.

Message	Description
Low paper level in the printer	The paper level of the printer is low.
No paper in the printer	There is no paper in the printer.
Paper stuck in the printer	The paper is stuck in the printer.
Low ink level in the printer	The ink level of the printer is low.
No ink in the printer	There is no ink in the printer.
Printer error	An error message has been sent from the printer.
Data error	A data error message has been sent from the printer.
Connection error	Displayed when a PictBridge connection fails.
Check printer	Displayed when a PictBridge connection fails.
Printing now	Displayed when printing is being executed.

Message	Description
Printing is completed. Continue printing?	Displayed when printing completes.
Print canceled	Displayed when printing is canceled.
No image to be processed	Displayed when there are no images to print.
Wrong DPOF setting	Displayed when DPOF printing cannot be performed.

Troubleshooting

Problem	Cause	Remedy
The camera will not turn on	The batteries are not installed	Check if batteries are installed. If not, install batteries.
	The batteries are installed incorrectly	Check orientation of the battery. Reinsert the batteries according to the $\oplus\ominus$ symbols in the battery compartment (p.27).
	The batteries are exhausted	Insert new batteries or use the AC adapter.
No image appears on the display	The camera is connected to a computer	The display is off when the camera is connected to a computer.
	The camera is connected to a TV	The display is off when the camera is connected to a TV.
The display is hard to see	The brightness level of the display is set too dark	Adjust the brightness level in [Brightness Level] in the [Setting] menu (p.167).
	Power Saving function is on	When the Power Saving function is on, the display automatically darkens after a certain amount of time. Press a button to return to the normal brightness level. Select [Off] in [Power Saving] in the [Setting] menu to turn the Power Saving function off (p.168).
The shutter will not release	The flash is charging	Pictures cannot be taken while the flash is charging. Wait until charging is finished.
	There is no available space on the SD Memory Card or in the built-in memory	Insert an SD Memory Card with available space or delete unwanted images (p.32, 124).
	Recording	Wait until recording is finished.
The picture is dark when using the flash	The subject is too far away in a dark environment, such as a night scene	The picture becomes dark if the subject is too far away. Take pictures within the specified flash range.

Problem	Cause	Remedy
The subject is not in focus	The subject is difficult to focus on with autofocus	The camera may have difficulty in focusing on such subjects as: low contrast subjects (a white wall, a blue sky, etc.), dark subjects, finely-patterned objects, rapidly-moving objects. It is also difficult to get proper focus when shooting through a window or a net. Try shooting using the focus lock (p.61).
	The subject is not in the focusing area	Locate the desired subject in the focus frame (focusing area) in the center of the display. If it is difficult to do so, first lock the focus on the desired subject (focus lock), and then move the camera to recompose.
The flash does not discharge	The flash mode is set to (flash off) The drive mode is set to The focus mode is set to The shooting mode is set to	Set to Auto or (Flash On) (p.89). The flash does not discharge in these modes.
The USB connection with a personal computer does not function properly	The USB connection setting of the camera is set to [PictBridge]	Set the USB connection setting to [PC] (p.165).
The USB connection with a printer does not function properly	The USB connection setting of the camera is set to [PC]	Set the USB connection setting to [PictBridge] (p.165).



Very occasionally, static electricity may cause camera malfunction. In this case, remove the batteries and install them again. If the camera is then working properly, normal condition is restored and you can continue using the camera.

Default Settings

The table below lists the factory default settings.

The meaning of the indications for menu items with a default setting is explained below.

Last Memory Setting

- Yes : The current setting (last memory) is saved when the camera is turned off.
- No : The setting returns to the default setting when the camera is turned off.
- * : The setting depends on the [Memory] setting (p.103).
- : N/A

Reset Setting

- Yes : The setting returns to the default setting with the Reset function (p.171).
- No : The setting is saved even after reset.
- : N/A

● [CAMERA Rec.Mode] Menu Items

Item	Default Setting	Last Memory Setting	Reset Setting	Page
Pixel Track SR	Auto	Yes	Yes	p.73
Recorded Pixels	10M (3648×2736)	Yes	Yes	p.93
Focusing Area	[] (Multiple)	Yes	Yes	p.92
Sensitivity	Auto	*	Yes	p.96
EV Compensation	±0.0	*	Yes	p.95
Movie	Recorded Pixels Movie SR	640 (640×480, 30fps) <input checked="" type="checkbox"/> (On)	Yes Yes	p.101 p.102
Blink Detection	<input checked="" type="checkbox"/> (On)	Yes	Yes	p.97
Digital Zoom	<input checked="" type="checkbox"/> (On)	*	Yes	p.72

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Memory	Face Priority	<input type="checkbox"/> (Off)	Yes	Yes	p.65
	Flash Mode	<input checked="" type="checkbox"/> (On)	Yes	Yes	p.89
	Drive Mode	<input type="checkbox"/> (Off)	Yes	Yes	p.83 p.84
	Focus Mode	<input type="checkbox"/> (Off)	Yes	Yes	p.91
	Zoom Position	<input type="checkbox"/> (Off)	Yes	Yes	p.71
	Sensitivity	<input type="checkbox"/> (Off)	Yes	Yes	p.96
	EV Compensation	<input type="checkbox"/> (Off)	Yes	Yes	p.95
	Digital Zoom	<input checked="" type="checkbox"/> (On)	Yes	Yes	p.72
	DISPLAY	<input type="checkbox"/> (Off)	Yes	Yes	p.18
	File No.	<input checked="" type="checkbox"/> (On)	Yes	Yes	—
Date Imprint		Off	Yes	Yes	p.98

● [ Setting] Menu Items

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Sound	Operation Volume	3	Yes	Yes	p.157
	Playback Volume	3	Yes	Yes	
	Start-up Sound	1	Yes	Yes	
	Shutter Sound	1	Yes	Yes	
	Operation Sound	1	Yes	Yes	
	Self-timer Sound	1	Yes	Yes	
Date Adjust	Date Style (date)	According to initial setting	Yes	No	p.42 p.158
	Date Style (time)	24h	Yes	No	
	Date	1/1/2009	Yes	No	
	Time	According to initial setting	Yes	No	
World Time	Select Time	Same as  Hometown	Yes	Yes	p.161
	Destination (City)	According to initial setting	Yes	No	
	Destination (DST)	<input type="checkbox"/> (Off)	Yes	No	
	Hometown (City)	According to initial setting	Yes	No	
	Hometown (DST)	<input type="checkbox"/> (Off)	Yes	No	
Language/言語		According to initial setting	Yes	No	p.38 p.163
Folder Name		Date	Yes	Yes	p.164
USB Connection		PC	Yes	Yes	p.165
Video Out		According to initial setting	Yes	No	p.166
Brightness Level			Yes	Yes	p.167
Power Saving		5 sec	Yes	Yes	p.168
Auto Power Off		3 min	Yes	Yes	p.169
Reset		Cancel	—	—	p.171
Delete All Images		Cancel	—	—	p.170
Format		Cancel	—	—	p.156

● Playback Mode Palette Items

Item		Default Setting	LastMemory Setting	Reset Setting	Page
Slideshow	Interval	3 sec	Yes	Yes	p.113
	Screen Effect	Wipe	Yes	Yes	
	Sound Effect	<input checked="" type="checkbox"/> (On)	Yes	Yes	
Resize	Recorded Pixels	Depending on the picture taken	—	—	p.134
Cropping		Depending on the picture taken	—	—	p.135
Image Copy		Built-in memory → SD Memory Card	—	—	p.144
Image Rotation		Normal	—	—	p.115
Digital Filter		B&W	No	—	p.137
Frame Composite		Default1	Yes	Yes	p.141
Red-eye Compensation		—	—	—	p.140
Protect	Single Image	Depending on the recorded image	—	—	p.127
	All Images	Depending on the recorded image	—	—	
DPOF	Single Image	Copies: 0 Date: <input type="checkbox"/> (Off)	—	—	p.146
	All Images		—	—	
Favorite		Playback	—	—	p.118
Image Recovery		Cancel	—	—	p.126

● Key Operation

Item	Function	Default Setting	LastMemory Setting	Reset Setting	Page
◀ button	Operation Mode	◀ mode	—	—	—
Zoom/▲/▼ button	Zoom Position	Full wide-angle	*	No	p.71
Four-way controller	▲ Drive Mode	□ (Standard)	*	Yes	p.83 p.84
	▼ Shooting Mode	<small>AUTO PICT</small> (Auto Picture)	Yes	Yes	p.63
	◀ Flash Mode	Flash (Auto)	*	Yes	p.89
	▶ Focus Mode	AF (Standard)	*	Yes	p.91
MENU button	Menu Display	Capture mode: [◀ Rec.Mode] menu Playback mode: [◀ Setting] menu	—	—	p.52
OK/DISPLAY button	Information Display	Normal	*	Yes	p.18
◉ button	Operation Mode	Face Priority On	*	Yes	p.65

List of World Time Cities

City: indicates cities that can be set as either the Initial Setting (p.38) or the World Time (p.161).
Video Output Format: indicates the video output format of the city set as the Initial Setting.

Region	City	Video Output Format	Region	City	Video Output Format
North America	Honolulu	NTSC	Africa/ West Asia	Istanbul	PAL
	Anchorage	NTSC		Cairo	PAL
	Vancouver	NTSC		Jerusalem	PAL
	San Francisco	NTSC		Nairobi	PAL
	Los Angeles	NTSC		Jeddah	PAL
	Calgary	NTSC		Tehran	PAL
	Denver	NTSC		Dubai	PAL
	Chicago	NTSC		Karachi	PAL
	Miami	NTSC		Kabul	PAL
	Toronto	NTSC		Male	PAL
	New York	NTSC		Delhi	PAL
	Halifax	NTSC		Colombo	PAL
Central and South America	Mexico City	NTSC		Kathmandu	PAL
	Lima	NTSC		Dacca	PAL
	Santiago	NTSC	East Asia	Yangon	NTSC
	Caracas	NTSC		Bangkok	PAL
	Buenos Aires	PAL		Kuala Lumpur	PAL
	Sao Paulo	PAL		Vientiane	PAL
Europe	Rio de Janeiro	NTSC		Singapore	PAL
	Lisbon	PAL		Phnom Penh	PAL
	Madrid	PAL		Ho Chi Minh	PAL
	London	PAL		Jakarta	PAL
	Paris	PAL		Hong Kong	PAL
	Amsterdam	PAL		Beijing	PAL
	Milan	PAL		Shanghai	PAL
	Rome	PAL		Manila	NTSC
	Copenhagen	PAL		Taipei	NTSC
	Berlin	PAL		Seoul	NTSC
	Prague	PAL		Tokyo	NTSC
	Stockholm	PAL		Guam	NTSC
	Budapest	PAL	Oceania	Perth	PAL
	Warsaw	PAL		Adelaide	PAL
	Athens	PAL		Sydney	PAL
	Helsinki	PAL		Noumea	PAL
	Moscow	PAL		Wellington	PAL
Africa/ West Asia	Dakar	PAL		Auckland	PAL
	Algiers	PAL		Pago Pago	NTSC
	Johannesburg	PAL			

Optional Accessories

A number of dedicated accessories are available for this camera. Products marked with an asterisk (*) are the same as those supplied with the camera.

- **Power supply**

- AC adapter kit K-AC62**

- (AC adapter D-AC62, DC coupler D-DC51, AC plug cord)

- **Cable**

- USB cable I-USB7 (*)**

- AV cable I-AVC7 (*)**

- **Strap**

- O-ST51 (*)**

- O-ST24** Genuine leather strap

- O-ST8** Silver chain strap

- O-ST81** Waterproof strap

- **Camera case**

- O-CC72**

- O-CC79**

- O-CC81**

Main Specifications

Type	Fully automatic compact digital still camera with built-in zoom lens	
Number of Effective Pixels	Approx. 10 megapixels	
Image Sensor	1/2.33 inch CCD	
Number of Recorded Pixels	Still	10MH / 10M (3648×2736 pixels), 7M (3072×2304 pixels) 5M (2592×1944 pixels), 3M (2048×1536 pixels) 2.1M (16:9) (1920×1080 pixels), 1024 (1024×768 pixels) 640 (640×480 pixels)
		<ul style="list-style-type: none">* Fixed at 3M (2048×1536) in Half-length Portrait mode.* Fixed at 5M (2592×1944) in Digital SR mode.* Fixed at 3M (2048×1536) in Frame Composite mode.* Fixed at 2M (1600×1200) for one frame in Digital Panorama mode.* Fixed at 5M (2592×1944) when the sensitivity is set to 3200 or 6400.
	Movie	640 (640×480 pixels, 30fps), 640 (640×480 pixels, 15fps), 320 (320×240 pixels, 30fps), 320 (320×240 pixels, 15fps)
Sensitivity (Standard Output Sensitivity)	Auto, Fixed (ISO 64 - 6400) * The sensitivity is fixed at Auto (64-6400) in the Digital SR.	
File Format	Still	JPEG (Exif 2.2), DCF 2.0, DPOF, PictBridge, PRINT Image Matching III
	Movie	AVI (Motion JPEG), approx. 30fps/15fps, PCM system, monaural sound, full color, Movie SR (Movie Shake Reduction)
Storage Media	Built-in memory (approx. 34.8 MB), SD Memory Card, SDHC Memory Card	

Approximate Image Storage Capacity and Recording Time

Still Pictures

	Built-in Memory	512 MB
[10MH] 3648×2736	8 pictures	117 pictures
[10M] 3648×2736	16 pictures	228 pictures
[7M] 3072×2304	21 pictures	287 pictures
[5M] 2592×1944	26 pictures	355 pictures
[3M] 2048×1536	42 pictures	570 pictures
[2.1M] 1920×1080	61 pictures	839 pictures
[1024] 1024× 768	117 pictures	1590 pictures
[640] 640× 480	222 pictures	3022 pictures

- The image storage capacity is for reference only. The actual image storage capacity may vary depending on the SD Memory Card and the subject.

Movie

	Built-in Memory	512 MB
[640] 640×480, 30fps,	33 sec.	7 min. 31 sec.
[640] 640×480, 15fps	1 min. 5 sec.	14 min. 48 sec.
[320] 320×240, 30fps,	53 sec.	11 min. 59 sec.
[320] 320×240, 15fps,	1 min. 41 sec.	22 min. 53 sec.

- The above figures are based on our standard shooting conditions and may vary depending on the subject, shooting conditions and type of the SD Memory Card used.
- Recording can continue until the built-in memory or the SD Memory Card is full, or the size of the recorded movie reaches 2 GB (when using an SDHC card). If recording stops at 2 GB, start recording again to continue to record the rest of the movie in blocks of 2 GB.

White Balance	Auto	
Lens	Focal Length	6.3 mm - 18.9 mm (approx. 35 mm - 105 mm in 35mm equivalent focal length)
	Aperture	F3.1 (W) - F5.9 (T)
	Lens Composition	6 elements in 5 groups (4 aspherical elements)
Optical Zoom	3×	
Intelligent Zoom	Approx. 3.5× at [7M] (3072×2304), Approx. 17.1× at [640] (640×480) (when combined with optical zoom)	
Digital Zoom	Max. Approx. 5.7× (combines with 3× optical zoom to give zoom magnification equivalent to Approx. 17.1×)	
Motion Blur Reduction	Still	Hi-sensitivity electronic shake compensation, Hi-sensitivity shake reduction mode (Digital SR)
	Movie	Movie shake reduction (Movie SR)

Display	2.4 inch LCD, approx. 112,000 dots, Wide viewing angle	
Playback modes	Single-frame, 4-frame Index, 9-frame Index, Enlargement (max. 10x, scrollable), Face Close-up Playback, Folder Display, Calendar Display, Deleting Selected Images, Slideshow, Resize, Cropping, Image Copy, Image Rotation, Digital Filter, Movie Playback, Frame Composite, Red-eye Compensation, Protect, DPOF, Image Recovery, Favorites	
Focus Modes	Autofocus, Macro, Infinity, Pan Focus	
Focus	Type	9-point autofocus (multiple/spot/automatic tracking AF changeable)
	Focus range (From lens face)	Standard : 0.4 m - ∞ (Wide-angle) 0.6 m - ∞ (Telephoto) Macro : 0.1 m - 1.0 m (Wide-angle) * It is possible to switch to Pan Focus and Infinity. * Face Recognition AF is available only while the camera recognizes the subject's face.
	Focus Lock	By half-pressing the shutter release button
Exposure control	Metering System	Multi-segment metering
	Exposure Compensation	±2 EV (can be set in 1/3 EV steps)
Face Priority	Recognition of up to 32 people's faces (up to 15 faces in the face recognition frame on the display), Smile Capture, Blink Detection	
Shooting modes	Auto Picture, Program, Night Scene, Night Scene Portrait, Half-length Portrait, Movie, Landscape, Flower, Portrait, Surf & Snow, Sport, Digital SR, Kids, Sunset, Pet, Food, Frame Composite, Digital Panorama, Green * Face Recognition AE is available only while the camera recognizes the subject's face.	
Digital Filters	B&W, Sepia, Red, Pink, Purple, Blue, Green, Yellow, Brightness	
Movie	Continuous Recording Time	Approx. 1 second - until built-in memory or SD Memory Card is full (however, maximum size is limited to 2 GB)
Shutter Speed	1/2000 sec. - 1/4 sec., max. 4 sec.	
Built-in Flash	Modes	Auto, Flash Off, Flash On, Flash On + Red-eye
	Flash Range	Wide-angle: approx. 0.1 m - 5.0 m (approx. 0.33 ft - 16.40 ft) (Sensitivity: in Auto condition) Telephoto: approx. 0.6 m - 2.7 m (approx. 1.97 ft - 8.86 ft) (Sensitivity: in Auto condition)
Drive Modes	Single-frame, Self-timer (approx. 10 sec., approx. 2 sec.), Continuous	
Self-timer	Electronic control type, control time: Approx. 10 sec., 2 sec.	
Time Function	World Time	75 cities (28 time zones)
Power Source	Two AA (alkaline, lithium or Ni-MH) batteries, AC adapter kit (optional)	

Battery Life	Number of Recordable Images approx. 210 pictures	* Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with display on, flash used for 50% of the shots, and 23 degrees centigrade). Actual performance may vary according to operating conditions.
Playback Time	approx. 480 min.	* According to the result of in-house testing. Actual time may differ depending on usage conditions.
Movie Recording Time	approx. 110 min.	
Interfaces	USB 2.0 (high-speed compatible) /PC/AV terminal	
Video Output	NTSC/PAL (monaural)	
PictBridge	Printer	PictBridge-compatible printer
	Print Modes	Print One, Print All, DPOF AUTOPRINT
	Paper Size	Card, L, 2L, Postcard, 100 mm×150 mm, 4"×6", 8"×10", Letter, 11"×17", A4, A3, printer setting
	Paper Type	★★★, ★★, ★, printer setting
	Quality	★★★, ★★, ★, printer setting
	Border Status	With/without, printer setting
Dimensions	Approx. 97.5 (W) × 60 (H) × 23.5 (D) mm (excluding operating or protruding parts)	
Weight	Approx. 110 g (excluding battery and SD Memory Card) Approx. 160 g (including battery and SD Memory Card)	
Accessories	Two AA alkaline batteries, USB cable, AV cable, software (CD-ROM), strap, Operating Manual, Quick Guide	

WARRANTY POLICY

All PENTAX cameras purchased through authorized bona fide photographic distribution channels are guaranteed against defects of material or workmanship for a period of twelve months from date of purchase. Service will be rendered, and defective parts will be replaced without cost to you within that period, provided the equipment does not show evidence of impact, sand or liquid damage, mishandling, tampering, battery or chemical corrosion, operation contrary to operating instructions, or modification by an unauthorized repair shop. The manufacturer or its authorized representatives shall not be liable for any repair or alterations except those made with its written consent and shall not be liable for damages from delay or loss of use or from other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that the liability of the manufacturer or its representatives under all guarantees or warranties, whether expressed or implied, is strictly limited to the replacement of parts as hereinbefore provided. No refunds will be made on repairs by non-authorized PENTAX service facilities.

Procedure During 12-month Warranty Period

Any PENTAX which proves defective during the 12-month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representative of the manufacturer in your country, send the equipment to the manufacturer, with postage prepaid. In this case, it will take a considerable length of time before the equipment can be returned to you owing to the complicated customs procedures required. If the equipment is covered by warranty, repairs will be made and parts replaced free of charge, and the equipment will be returned to you upon completion of servicing. If the equipment is not covered by warranty, regular charges of the manufacturer or of its representatives will apply. Shipping charges are to be borne by the owner. If your PENTAX was purchased outside of the country where you wish to have it serviced during the warranty period, regular handling and servicing fees may be charged by the manufacturer's representatives in that country. Notwithstanding this, your PENTAX returned to the manufacturer will be serviced free of charge according to this procedure and warranty policy. In any case, however, shipping charges and customs clearance fees to be borne by the sender. To prove the date of your purchase when required, please keep the receipt or bills covering the purchase of your equipment for at least a year. Before sending your equipment for servicing, please make sure that you are sending it to the manufacturer's authorized representatives or their approved repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation for the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.

- This warranty policy does not affect the customer's statutory rights.
- The local warranty policies available from PENTAX distributors in some countries can supersede this warranty policy. Therefore, we recommend that you review the warranty card supplied with your product at the time of purchase, or contact the PENTAX distributor in your country for more information and to receive a copy of the warranty policy.



The CE Mark is a Directive conformity mark of the European Union.

For customers in USA

STATEMENT OF FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio/TV technician for help.

For customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

Pour les utilisateurs au Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FOR CALIFORNIA, U.S.A. ONLY

Perchlorate Material-special handling may apply. The lithium battery used in this camera contains perchlorate material, which may require special handling. See www.dtsc.ca.gov/hazardouswaste/perchlorate

Declaration of Conformity
According to 47CFR, Parts 2 and 15 for
Class B Personal Computers and Peripherals

We: PENTAX Imaging Company
 A Division of PENTAX of America, Inc.

Located at: 600 12th Street, Suite 300
Golden, Colorado 80401 U.S.A.
Phone: 303-799-8000 FAX: 303-790-1131

Declare under sole responsibility that the product identified herein complies with 47CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on the statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §15.101 to §15.109.

Product Name: PENTAX Digital Still Camera

Model Number: Optio E70

Contact person: Customer Service Manager

Date and Place: February, 2009, Colorado

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



1. In the European Union

These symbols on the products, packaging and/or accompanying documents mean that used electrical and electronic equipments and batteries should not be mixed with general household waste.

Used electrical/electronic equipments and batteries must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of these products.

Following the implementation by member states, private households within the EU states may return their used electrical/electronic equipments to designated collection facilities free of charge*.

In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one.

*Please contact your local authority for further details.



By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other countries outside the EU

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



For Switzerland: Used electrical/electronic equipment can be returned free of charge to the dealer, even when you

don't purchase a new product. Further collection facilities are listed on the home page of www.swico.ch or www.sens.ch.

Note for the battery symbol (bottom two symbol examples): This symbol might be used in combination with a designation for the chemical element or compound in use. In this case you have to comply with the requirement set by the Directive for the chemicals involved.

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HOYA CORPORATION**PENTAX Imaging Systems Division**

	2-36-9, Maeno-cho, Itabashi-ku, Tokyo 174-8639, JAPAN (http://www.pentax.jp)
PENTAX Europe GmbH (European Headquarters)	Julius-Vosseler-Strasse 104, 22527 Hamburg, GERMANY (HQ - http://www.pentaxeurope.com) (Germany - http://www.pentax.de)
PENTAX U.K. Limited	PENTAX House, Heron Drive, Langley, Slough, Berks SL3 8PN, U.K. (http://www.pentax.co.uk)
PENTAX France S.A.S.	112 Quai de Bezons, B.P. 204, 95106 Argenteuil Cedex, FRANCE (http://www.pentax.fr)
PENTAX (Schweiz) AG	Widenholzstrasse 1, 8304 Wallisellen, Postfach 367, 8305 Dietlikon, SWITZERLAND (http://www.pentax.ch)
PENTAX Imaging Company A Division of PENTAX of America, Inc.	(Headquarters) 600 12th Street, Suite 300 Golden, Colorado 80401, U.S.A. (PENTAX Service Department) 12061 Tejon St. STE 600 Westminster, Colorado 80234, U.S.A. (http://www.pentaximaging.com)
PENTAX Canada Inc.	1770 Argentia Road Mississauga, Ontario L5N 3S7, CANADA (http://www.pentax.ca)
PENTAX Trading (SHANGHAI) Limited	23D, Jun Yao International Plaza, 789 Zhaojiabang Road, Xu Hui District, Shanghai, 200032 CHINA (http://www.pentax.com.cn)

<http://www.pentax.jp/english>

- Specifications and external dimensions are subject to change without notice.